

TOWN OF GLASTONBURY, CONNECTICUT CONSTRUCTION PLANS

EASTERN BOULEVARD OVER SALMON BROOK

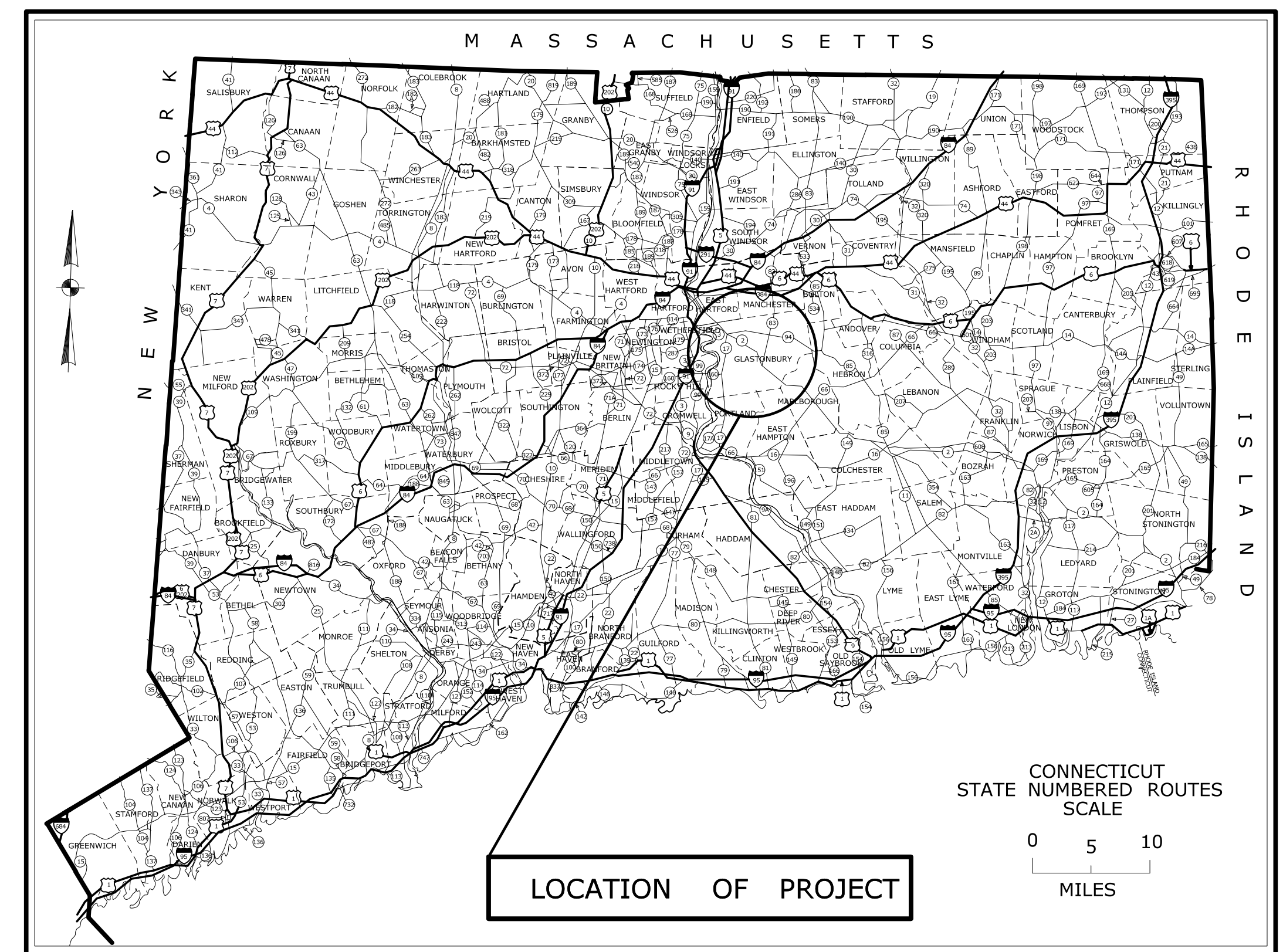
FROM STA. 2+00 TO STA. 4+50
LENGTH 250 FT.

STATE PROJECT NO. 0053-0188
FEDERAL AID PROJECT NO. 6053(009)

JANUARY 2017

FINAL DESIGN PLANS

TO BE MAINTAINED BY THE TOWN OF GLASTONBURY



2016 SPECIFICATIONS, FORM 817 GOVERN

ALL ELEVATIONS ON THIS PROJECT BASED ON NAVD 1988

COORDINATES BASED ON CONNECTICUT COORDINATE SYSTEM NAD 1983

LIST OF DRAWINGS					
SHEET NO.	TITLE	STANDARD SHEET NO.			
1	TITLE SHEET	HW-507_04	TYPE "C", "C-L" & ROUND PRECAST CONCRETE CB		
2	DETAILED ESTIMATE SHEET	HW-507_08	CATCH BASIN FRAMES AND GRATES		
3	EXISTING CONDITION PLAN	HW-601_01	FIGURES FOR DATES ON BRIDGE PARAPETS		
4	GENERAL NOTES SHEET	HW-910_01	W-BEAM METAL BEAM RAIL HARDWARE		
5	TYPICAL SECTION	HW-910_02	METAL BEAM RAIL (TYPE R-B 350) GUIDERAIL		
6-9	DETAIL SHEETS	HW-910_07	R-B 350 BRIDGE ATTACHMENT VERTICAL SHAPE PARAPET		
10	ROADWAY PLAN AND PROFILE	HW-910_17	R-B TERMINAL SECTION		
11	DRAINAGE, GRADING & ROADWAY DETAIL PLAN	HW-911_01	R-B END ANCHORAGE TYPE I AND II		
12	WATER MAIN RECONSTRUCTION PLAN	TR-1205_01	DELINEATION, DELINEATORS AND OBJECT MARKER DETAILS		
13	SUGGESTED SEQUENCE OF CONSTRUCTION	TR-1208_01	SIGN SUPPORT & SIGN PLACEMENT DETAILS, GORE EXIT SIGN		
14	RIGHT OF WAY PLAN	TR-1208_02	METAL SIGN POSTS AND SIGN MOUNTING DETAILS		
15-16	CROSS SECTIONS	TR-1210_03	SPECIAL DETAILS AND PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS		
17	LANDSCAPE PLAN	TR-1220_01	SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS		
18	DETOUR PLAN	TR-1220_02	CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES		
19-36	BRIDGE PLANS				
F.H.W.A. REGION NO.	STATE	TOWN			FED. AID PROJ. NO.
	CT	GLASTONBURY			6053 (009)

STANDARD EXISTING CONVENTIONS

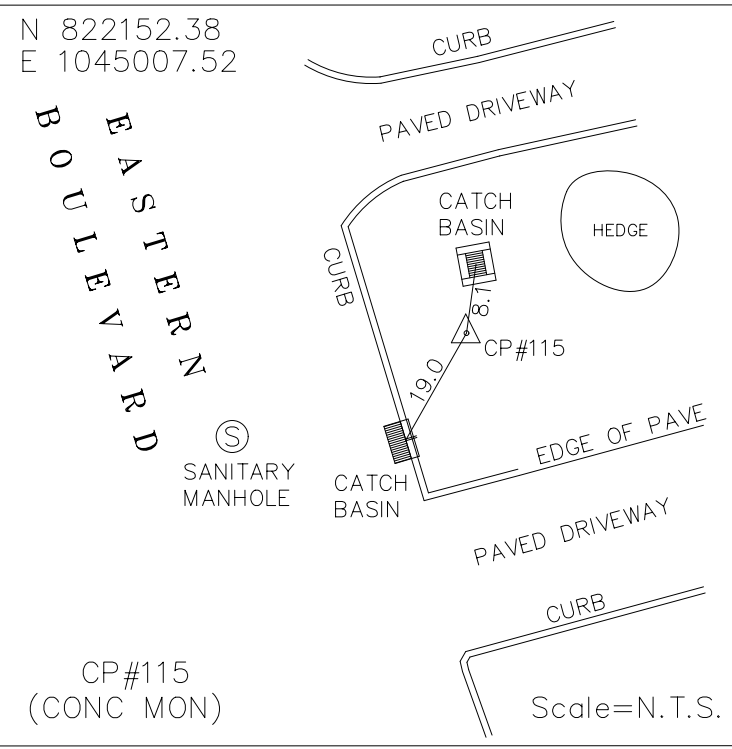
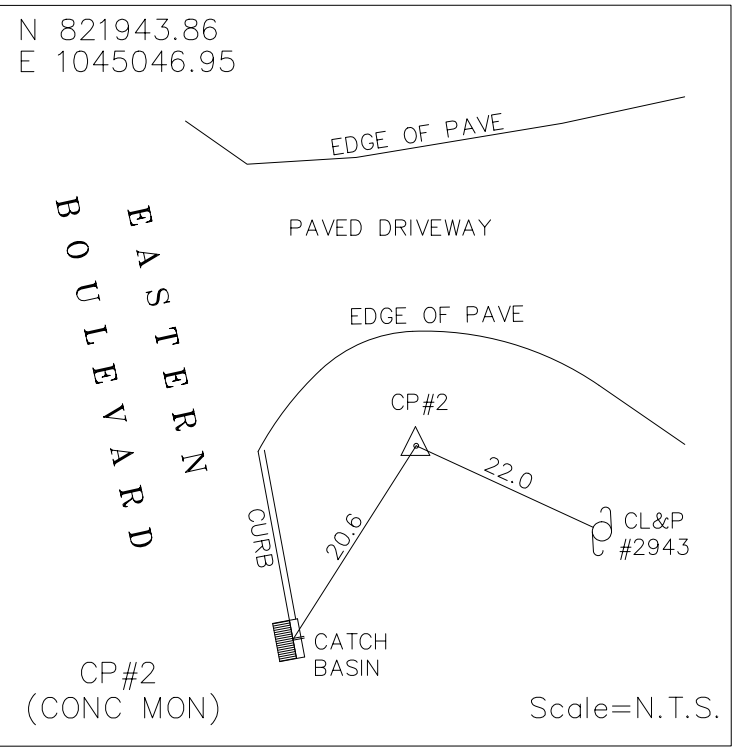
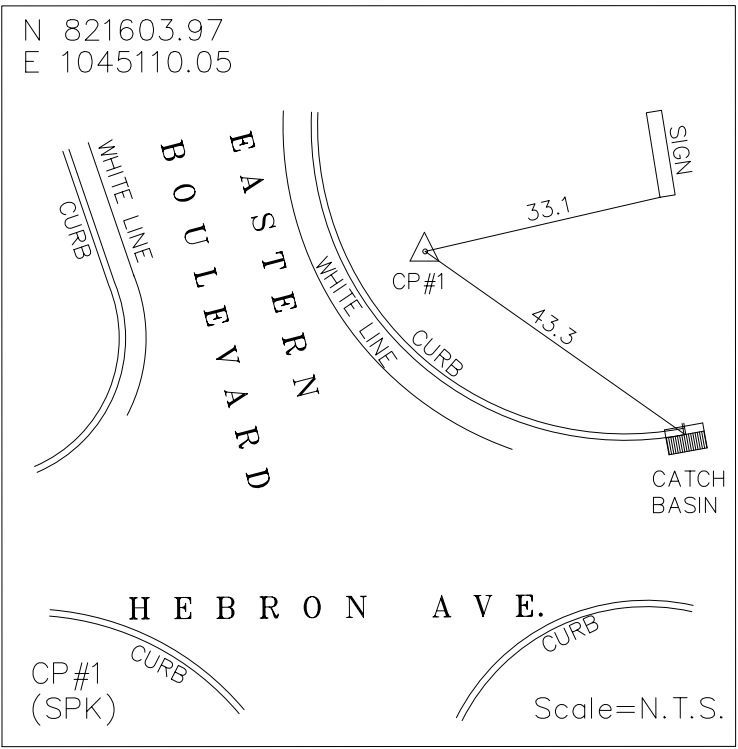
<p>Hedge Row </p> <p>North Arrow W/No. Cor.</p> <p>Edge Of Road </p> <p>Dirt Road </p> <p>BCLC </p> <p>Granite Curb </p> <p>Guide Rail </p> <p>Concrete Median Barrier </p>	<p>Bit. Walk </p> <p>Conc. Sidewalk </p> <p>Railroad Tracks </p> <p>Chain Link Fence </p> <p>Rustic Fence </p> <p>Pipe Fence </p> <p>Board Fence </p> <p>Water Edge </p>	<p>Stream </p> <p>Ditch </p> <p>TOWN LINE </p> <p>Grid Arrow </p> <p>Limit Of Marsh </p> <p>Stone Wall </p> <p>Ledge Outcrop </p>	<p>Inland Wetland Limits </p> <p>STATE LINE </p> <p>Power Line </p> <p>Easement Line </p> <p>Swamp </p> <p>Building </p> <p>Transmission Tower </p> <p>Riprap </p>	<p>Tree Line </p> <p>Shrub </p> <p>Evergreen Tree </p> <p>Deciduous Tree </p> <p>Retaining Wall </p> <p>Highway Line </p> <p>Street Line </p> <p>Property Line </p> <p>Lot Line </p>
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Border VERSION: 10/19/07

DESIGNED BY:
GM2 ASSOCIATES, INC.
115 GLASTONBURY BOULEVARD
GLASTONBURY, CT 06040



CT. LIC. NO. 19614



SURVEY CONTROL TIES
NOT TO SCALE

LEGEND

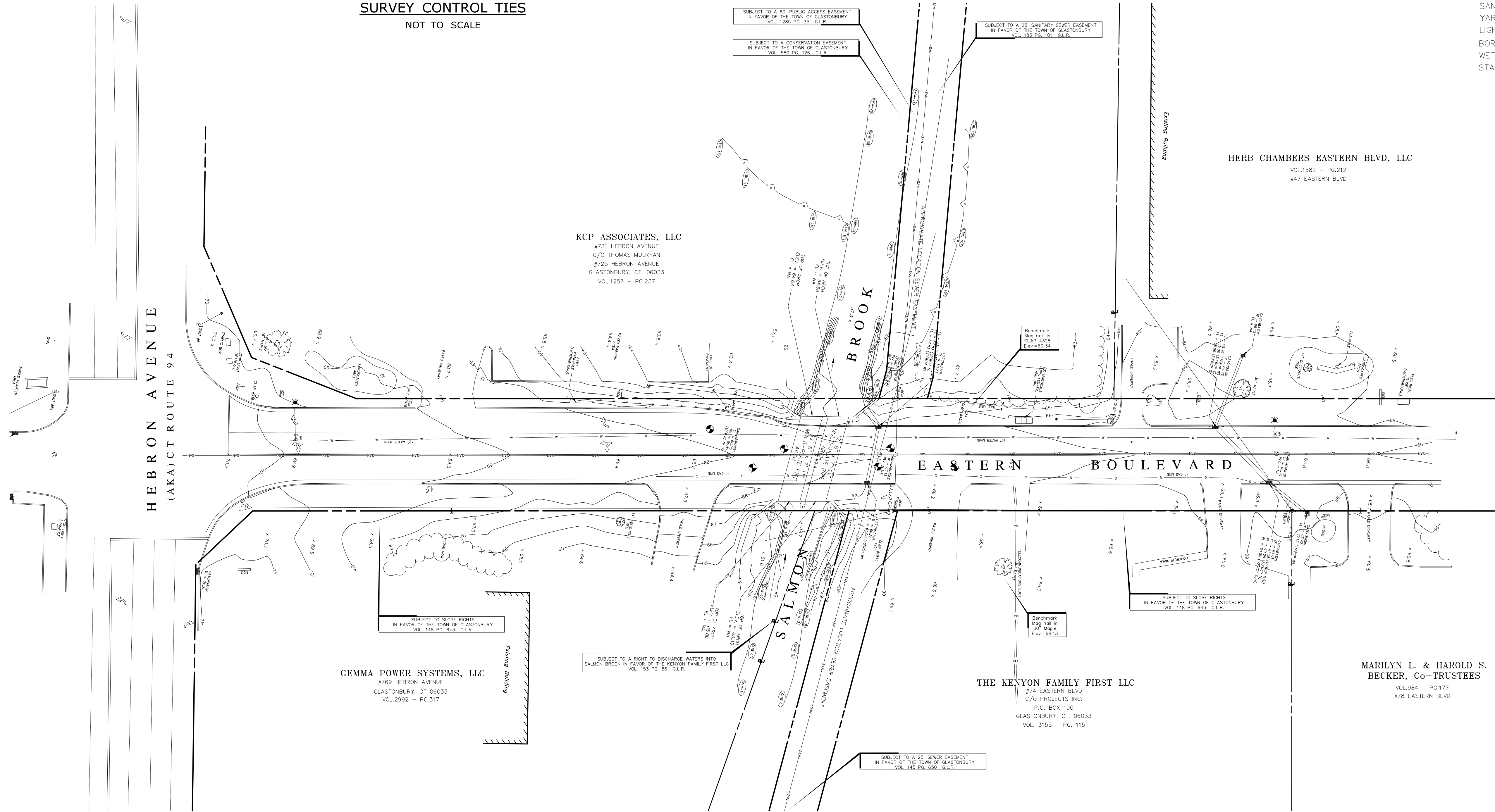
STONE WALL	
GUARD RAIL	
CHAIN LINK FENCE	
STORM SEWER	
CONTOUR LINE	
FOLIAGE LINE	
IRON PIN	
SURVEY MONUMENT	
DRILL HOLE	
CURB CATCHBASIN	
CURBLESS CATCHBASIN	
UTILITY POLE	
UTILITY POLE WITH GUY	
GAS SHUT OFF	
WATER SHUT OFF	
HYDRANT	
GATE VALVE	
SANITARY MANHOLE	
YARD DRAIN	
LIGHT STAND	
BORING	
WETLAND FLAG	
STATE WETLANDS	

SURVEY NOTES:

1. THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300B-1 THRU 20-300B-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES - "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC.
2. COORDINATES BASED ON NAD 83 DATUM. (CTGS MON 2296X & 6493)
3. ELEVATIONS BASED ON NAVD 88 DATUM. (BM 2946)
4. WETLAND BOUNDARIES SHOWN ARE FIELD LOCATION OF FLAGGING DELINEATED BY PIETRAS ENVIRONMENTAL GROUP, LLC.

MAP REFERENCES:

1. "RIGHT OF WAY MAP FOR PROPOSED ROAD TO INDUSTRIAL PARK PREPARED FOR - TOWN OF GLASTONBURY - GLASTONBURY, CONN.", scale 1" = 40', dated June 15, 1966 and prepared by John Luchs Jr, LS.
2. "CERTIFICATION PLAN - 731 HEBRON AVENUE - PREPARED FOR THOMAS MULRYAN - GLASTONBURY, CONN.", scale 1" = 20', dated, 4-6-99 and prepared by Megson & Heagle.
3. "PLOT PLAN PREPARED FOR - HERBERT G. CHAMBERS - GLASTONBURY, CT.", scale 1" = 40', dated, 10-10-78 and prepared Luchs & Beckerman.
4. "SITE PLAN - ADDITION TO: C&W MANUFACTURING CO. - 74 EASTERN BOULEVARD - GLASTONBURY, CONN.", scale 1" = 20', dated 9, Oct. 1975 and prepared by John Luchs Jr. LS.



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GENERAL NOTES

1. DRIVEWAY ACCESS TO BE MAINTAINED AT ALL TIMES
2. THE NEW CHANNEL TO BE ESTABLISHED WITH A LOW FLOW CHANNEL (SEE DETAIL) AND SHALL BE LINED WITH 12" OF NATURAL STREAMBED MATERIAL FROM THE EXISTING CHANNEL BED.
3. THE PROPOSED CHANNEL BANKS SHALL BE STABILIZED WITH RIPRAP FOR SLOPE PROTECTION (SEE DETAIL TO LIMITS SHOWN. ALL OTHER DISTURBED CHANNEL EMBANKMENTS SHALL BE STABILIZED WITH VEGETATION NATIVE TO THE EXISTING CHANNEL. VEGETATION SHALL BE PLACED TO AVERAGE DAILY FLOW LINE.
4. REMOVAL OF BITUMINOUS CONCRETE SHALL BE PAID FOR UNDER THE ITEM "EARTH EXCAVATION".
5. ALL AREAS OF DISTURBED EARTH REQUIRE "FURNISHING AND PLACING TOP SOIL " 4" THICK AND "TURF ESTABLISHMENT".
6. FINAL PAVEMENT MARKINGS TO BE EPOXY RESIN.
7. PAVEMENT MARKINGS SHALL BE INSTALLED PER TRAFFIC STANDARD SHEET TR-1210-03: SPECIAL DETAILS & TYPICAL PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS.
8. RESET ANY MONUMENT DISTURBED BY THIS PROJECT PER FORM 817 STANDARDS, TO BE PAID FOR UNDER "EARTH EXCAVATION".

GENERAL UTILITY COORDINATION NOTES


1. LOCATION OF ALL EXISTING UTILITIES ARE TAKEN FROM PLANS PROVIDED BY THE RESPECTIVE UTILITIES AND A LIMITED FIELD INSPECTION OF VISIBLE SURFACE FEATURES.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND PHYSICAL FEATURES AS IT AFFECTS HIS WORK AND SHALL NOTIFY THE ENGINEER IF CONDITIONS DIFFER FROM THAT SHOWN ON THE PLANS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THE UTILITIES.
4. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 PRIOR TO ANY EXCAVATION.
5. THE EXISTING GAS, WATER, AND SEWER VALVES, GATES, AND COVERS SHALL BE RESET BY THE CONTRACTOR TO MEET THE PROPOSED GRADES AS DIRECTED BY THE ENGINEER.
6. CONTRACTOR SHALL PROTECT EXISTING UTILITIES DURING DEMOLITION AND CONSTRUCTION PHASES. CONTRACTOR SHALL PROVIDE PROTECTION METHODS TO ENGINEER FOR APPROVAL PRIOR TO MOBILIZATION (SEE SPECIAL PROVISIONS) AND COORDINATE WITH RESPECTIVE UTILITY COMPANIES

ENVIRONMENTAL NOTES

1. AS MUCH AS THE EXISTING OVERHANGING VEGETATION ALONG THE NORTHERN STREAMBANK SHOULD BE PRESERVED DURING CONSTRUCTION. CONTRACTOR SHALL CUT BACK CANOPY AS NECESSARY. PRUNING BEYOND THE LIMITS OF CONSTRUCTION MUST BE APPROVED BY THE TOWN OF GLASTONBURY IN THE FIELD.
2. CARE SHOULD BE EXERCISED SO AS NOT TO INCREASE TURBIDITY LEVELS.
3. AS A BEST MANAGEMENT PRACTICE, ANY UNCONFINED INSTREAM WORK WITHIN SALMON BROOK SHALL BE RESTRICTED TO THE PERIOD FROM JUNE 1 TO SEPTEMBER 30, INCLUSIVE.
4. RIPARIAN UPLAND BUFFER PLANTINGS SHALL BE USED TO RESTORE THE DISTURBED AREA FROM THE WETLAND LIMITS TO ELEVATION 65' ALONG THE BANKS OF THE BROOK. PLANTINGS SHALL BE NATIVE CTDEEP-APPROVED SPECIES FOR RIPARIAN UPLAND BUFFER AREAS. PLANTINGS SHALL BE PERFORMED DURING CTDEEP APPROVED PLANTING SEASONS IN THE SPRING AND FALL. CONTRACTOR SHALL STABILIZE SLOPES AROUND PLANTINGS WITH MULCH, COST TO BE INCLUDED IN GENERAL COST OF WORK.

STANDARD WATER MAIN NOTES

1. ALL WATER MAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH METROPOLITAN DISTRICT STANDARDS AND SPECIFICATIONS.
2. ALL WATER MAIN PIPE SHALL BE CLASS 54 ANSI/AWWA C151/A21.51-81 RESTRAINED JOINT DUCTILE IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS OR SAND LINED MOLDS FOR WATER OR OTHER LIQUIDS.
3. ALL DUCTILE IRON PIPE WATER MAIN AND FITTINGS JOINTS SHALL BE RESTRAINED.
4. THE WATER MAIN SHALL BE BUILT BY A LICENSED PLUMBER UNDER THE SUPERVISION OF THE MDC DIRECTOR OF ENGINEERING AND PLANNING OR THEIR DESIGNEE.
5. MINIMUM PIPE COVER SHALL BE 4'-6" UNLESS NOTED OTHERWISE ON PLANS.
6. "CALL BEFORE YOU DIG" THE CONTRACTOR IS HEREBY REMINDED THAT TITLE 16, CHAPTER 293 OF THE CONNECTICUT GENERAL STATUES REQUIRES NOTIFICATION OF THE UTILITY COMPANIES OF PENDING EXCAVATION AT OR NEAR PUBLIC UTILITIES, THE CONTRACTOR SHALL CALL 1-800-922-4455 AT LEAST 48 HOURS PRIOR TO BEGINNING THE EXCAVATION.
7. ALL FEDERAL AND STATE OSHA SAFETY STANDARDS MUST BE FOLLOWED DURING WATER MAIN INSTALLATIONS AND TESTING, INCLUDING 29 CFR 1926.650 1926.652, THAT ADDRESS EXCAVATION WORK AND REQUIREMENTS FOR PROTECTIVE SYSTEMS.
8. TEST PITS SHALL BE DUG WELL IN ADVANCE OF THE WATER MAIN INSTALLATION TO DETERMINE POSSIBLE OFFSETS ABOVE OR BELOW OTHER UTILITIES, STRUCTURES OR OBSTACLES.
9. THE CONTRACTOR SHALL FURNISH TO THE ENGINEER A MATERIALS LIST, WITH SUBMITTALS FOR APPROVAL, PRIOR TO THE INSTALLATION OF THE PROPOSED WATER MAIN.
10. TEST PRESSURE SHALL BE 150 PSI, AS DETERMINED BY THE METROPOLITAN DISTRICT.
11. ALL WATER MAIN AND APPURTENANCES SHALL BE STAKED (SURVEYED) OUT BY A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF CONNECTICUT. THE SURVEY SHALL INCLUDE AN OFFSET LINE OR STREET LINE EVERY FIFTY FEET (50'-0"), FINAL ROAD OR SURFACE ELEVATION.
12. GATE OPERATIONS FOR THIS PROJECT SHALL BE "OPEN LEFT".
13. ALL FITTINGS, UNLESS OTHERWISE SPECIFIED, SHALL BE MECHANICAL JOINT AND SHALL BE INSTALLED WITH RESTRAINT IN EACH DIRECTION.
14. WHERE "PULLING" OR DEFLECTING THE PIPE IS INDICATED, SUCH DEFLECTION SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE "DIPRA HANDBOOK". IN NO CASE SHALL THE DEFLECTION BE GREATER THAN 5 DEGREES.
15. AFTER PLACING APPROXIMATELY TWO FEET (2'-0") OF BACKFILL MATERIAL OVER THE WATER MAIN, THE CONTRACTOR SHALL PLACE A SIX-INCH WIDE STRIP OF DURABLE, NON-DETECTABLE, COLOR CODED (BLUE FOR WATER) UNDERGROUND UTILITY DETECTION TAPE IMPRINTED WITH THE APPROPRIATE WARNING INDICATING THE PRESENCE OF A BURIED UTILITY CONDUIT.
16. CONTRACTOR SHALL ASSIST THE DISTRICT STAFF WITH THE FILLING, FLUSHING AND TESTING OF THE WATER MAIN. THE CONTRACTOR SHALL ABIDE BY THE DISTRICT'S STANDARDS FOR DISINFECTING WATER MAINS, INCLUDING PROPERLY NEUTRALIZING THE CHLORINATED WATER AND DISCHARGING THE WATER ACCORDINGLY.
17. SHOULD THE WATER MAIN FAIL TO PASS THE REQUIRED PHYSICAL, CHEMICAL AND BIOLOGICAL PARAMETERS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REINJECTING THE WATER MAIN WITH THE PROPER QUANTITY OF LIQUID HYPOCHLORITE SOLUTION, AT NO EXPENSE TO THE DISTRICT.



Town of Glastonbury

2155 MAIN STREET • P.O. BOX 6523 • GLASTONBURY, CONNECTICUT 06033-6523

January 27, 2017

CONSERVATION COMMISSION AND INLAND
WETLANDS & WATERCOURSES AGENCY

Mr. Richard J. Johnson, Town Manager
Town of Glastonbury
2155 Main Street
Post Office Box 6523
Glastonbury, Connecticut 06033-6523

Re: Application of the Town of Glastonbury for an inland wetlands and watercourses permit to replace and reconstruct the Bridge on Eastern Boulevard over Salmon Brook and its related activities (e.g. install a new sanitary sewer under the brook), said bridge located some 300 feet north of intersection with Hebron Avenue/Route 94

Dear Mr. Johnson:


At its Regular Meeting of January 26, 2017, the Conservation Commission/Inland Wetlands & Watercourses Agency approved an Inland Wetlands and Watercourses Permit, in accordance with the plans and conditions cited in the **attached** motion.


Please read the conditions of approval carefully and comply with them. Some of the conditions may require interacting with the Environmental Planner (e.g. inspection of soil erosion and sediment control); it will be your responsibility to schedule such interactions. Any questions you may have about the stated conditions can be directed to the Office of Community Development at (860) 652-7511.

This Permit:

- requires that the approved regulated activities be completed within one (1) year from commencement of said activities;
- is valid for five (5) years and thus expires on January 26, 2022; and
- may not be transferred unless authorized by the Inland Wetlands & Watercourses Agency

Once again should you have any questions, please do not hesitate to contact this office.

Sincerely,

Thomas Mocko
Environmental Planner

cc:  Daniel A. Pennington Town Engineer/Manager of Physical Services

TM:gfm
Attachment

RECEIVED


JAN 27 2017

GLASTONBURY
RECEIVED

APPROVED WETLANDS PERMIT MOTION

MOVED, that the Inland Wetlands and Watercourses Agency issues an inland wetlands and watercourses permit to the Town of Glastonbury for its proposed Replacement and Reconstruction of Eastern Boulevard's Bridge over Salmon Brook Project, in accordance with the submitted application materials on file in the Office of Community Development, and in compliance with the following conditions:

- There shall be strict adherence to:
 - The unconfined in-stream brook work time period (June 1 to September 30) established by the State of Connecticut Department of Energy and Environmental Protection (CT DEEP) Fisheries Unit; and
 - The specific procedures established for this project with regard to the required temporary sanitary sewer bypass component of the project.
- The protection strategies recommended for the eastern box turtle provided by the CT DEEP for this project, as detailed in their letter dated May 7, 2015, signed by Dawn M. McKay and addressed to Mr. Michael Salter of the Connecticut Department of Transportation, shall be implemented.
- Installation of soil erosion and sedimentation control and stabilization measures shall be the Permittee's responsibility. Afterwards it then shall be the Permittee's responsibility to inspect these control measures during, and immediately following, substantial storm events and maintain and/or replace the control measures, when needed, on a regular basis until the site is vegetatively stabilized. The Environmental Planner is hereby authorized to require additional soil erosion and sediment controls and stabilization measures to address situations that arise on the site.
- In the event of a forecasted: large rainstorm (greater than a 2-year rainfall frequency); or flood frequency at or exceeding that of a 5-year frequency (20 percent annual probability), the project contractor, assigned private construction inspector, Town Engineer and Environmental Planner shall discuss and establish any special precautionary measures that may be required to prevent or reduce environmental damage from any such unusual weather or stream flow conditions.
- The Permittee shall be fully responsible for damages caused by all activities undertaken pursuant to this permit that may have a detrimental effect on wetlands and/or watercourses, and all such activities that cause erosion and sedimentation problems.

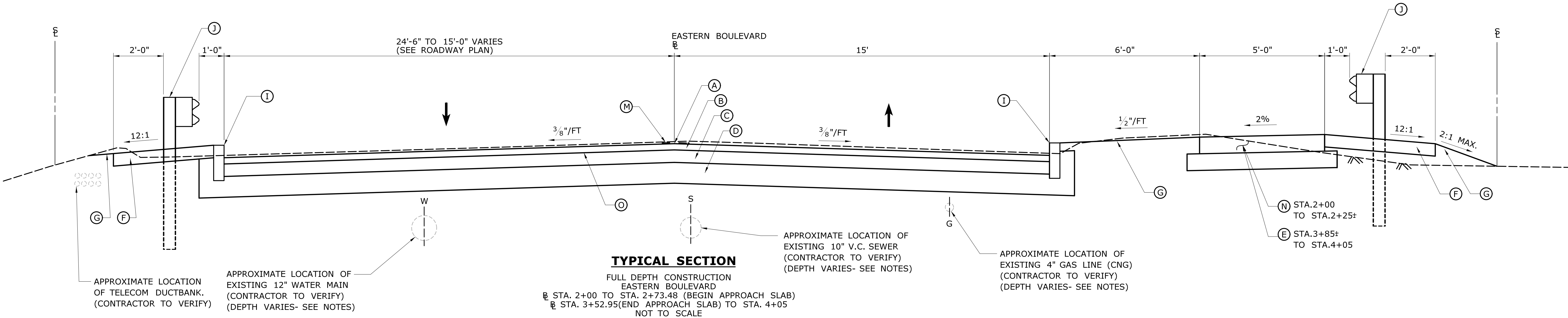
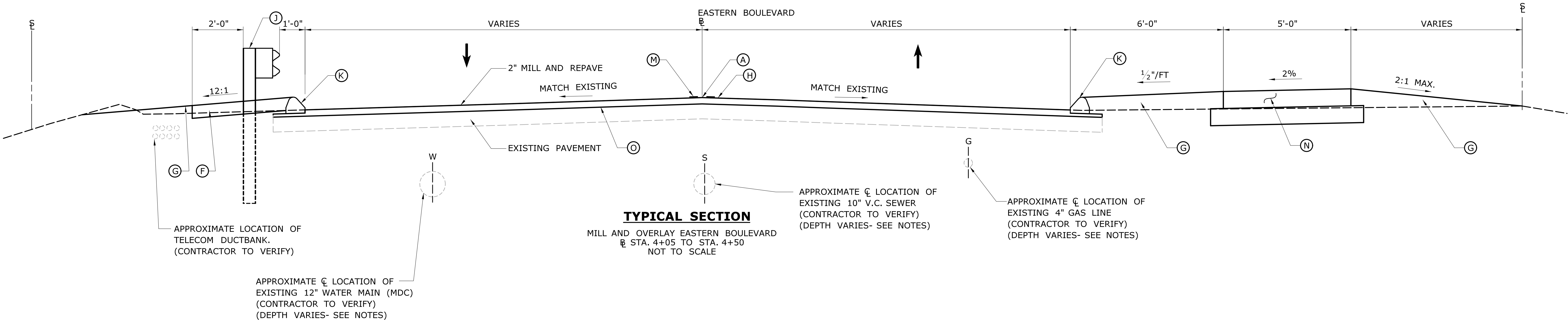
-	-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: YKM		PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 05608 EASTERN BOULEVARD OVER SALMON BROOK	TOWN: GLASTONBURY	PROJECT NO. 0053-0188	
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REV.	DATE	REVISION	DESCRIPTION	SHEET NO.	Plotted Date: 1/31/2017					DRAWING TITLE: GENERAL NOTES SHEET	SHEET NO. 4

NOTES:

1. MILL & REPAVE EASTERN BOULEVARD ROAD WITHIN LIMITS SHOWN ON ROADWAY PLAN WITH 2" BITUMINOUS CONCRETE - CLASS 1.
2. SEE ROADWAY PLAN FOR GUIDERAIL AND PAVEMENT LIMITS.
3. UPON COMPLETION OF ALL OTHER CONSTRUCTION ITEMS, THE FINAL COURSE OF BITUMINOUS CONCRETE SHALL BE PLACED IN ONE OPERATION OVER THE LIMITS SHOWN ON THE ROADWAY PLAN TO CREATE A CLEAN UNIFORM SURFACE.
4. ALL DISTURBED SLOPES REQUIRE "FURNISHING AND PLACING TOP SOIL" 4" THICK AND "TURF ESTABLISHMENT".
5. SEE GENERAL UTILITY COORDINATION NOTES ON DWG HWY-01.

LEGEND:

- (A) POINT OF APPLICATION OF GRADE
- (B) 3" - BITUMINOUS CONCRETE - CLASS 1 (TWO EQUAL LIFTS)
- (C) 6" - BITUMINOUS CONCRETE - CLASS 4
- (D) 10" GRAVEL SUBBASE (NO RECLAIMED MATERIAL)
- (E) 8" CONCRETE SIDEWALK ON 8" PROCESSED STONE BASE
- (F) 6" PROCESSED AGGREGATE
- (G) 4" TOP SOIL AND TURF ESTABLISHMENT
- (H) 2" - BITUMINOUS CONCRETE - CLASS 1
- (I) GRANITE CURBING (SEE PLAN FOR REVEAL HEIGHT)
- (J) METAL BEAM RAIL TYPE R-B 350 (SEE PLAN FOR LIMIT)
- (K) 6" BITUMINOUS CURB (6" REVEAL)
- (L) MATERIAL FOR TACK COAT
- (M) 4" DOUBLE YELLOW EPOXY RESIN PAVEMENT MARKINGS
- (N) 5" CONCRETE SIDEWALK ON 8" PROCESSED STONE BASE
- (O) MATERIAL FOR TACK COAT



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/26/2017

DESIGNER/DRAFTER:
YKM

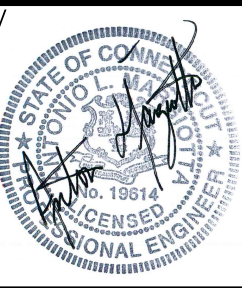
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SCALE AS NOTED

TOWN OF GLASTONBURY

Filename: ...\\HW...MSH_053_188_TYP.dgn

SIGNATURE/
BLOCK:



GM2 ASSOCIATES, INC.
115 GLASTONBURY BLVD.
GLASTONBURY, CT 06033

PROJECT TITLE:

REPLACEMENT OF BRIDGE NO. 05608
EASTERN BOULEVARD
OVER SALMON BROOK

TOWN:

GLASTONBURY

DRAWING TITLE:

TYPICAL SECTION

PROJECT NO.

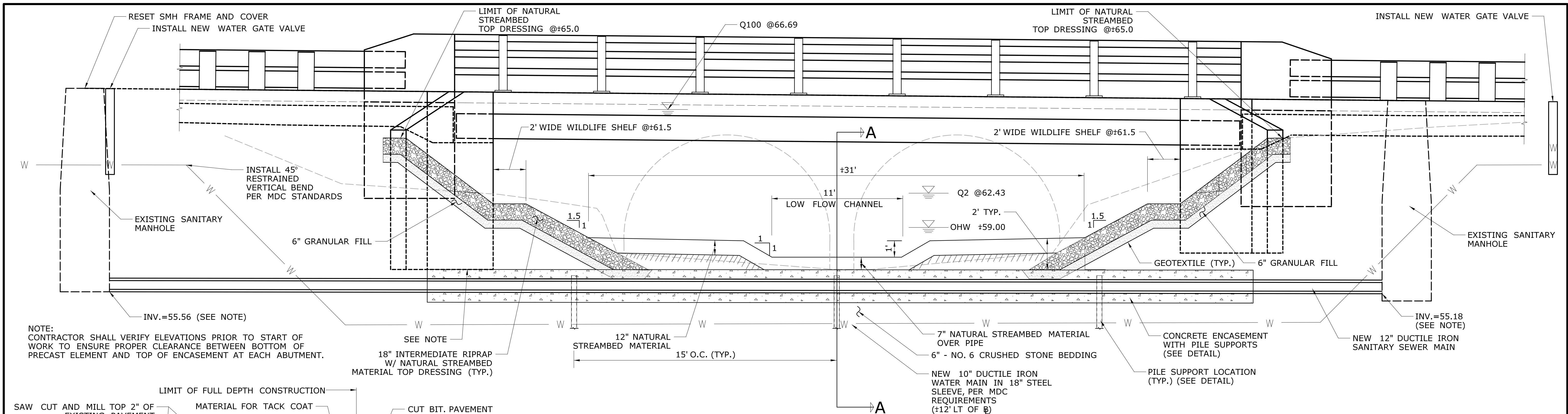
0053-0188

DRAWING NO.

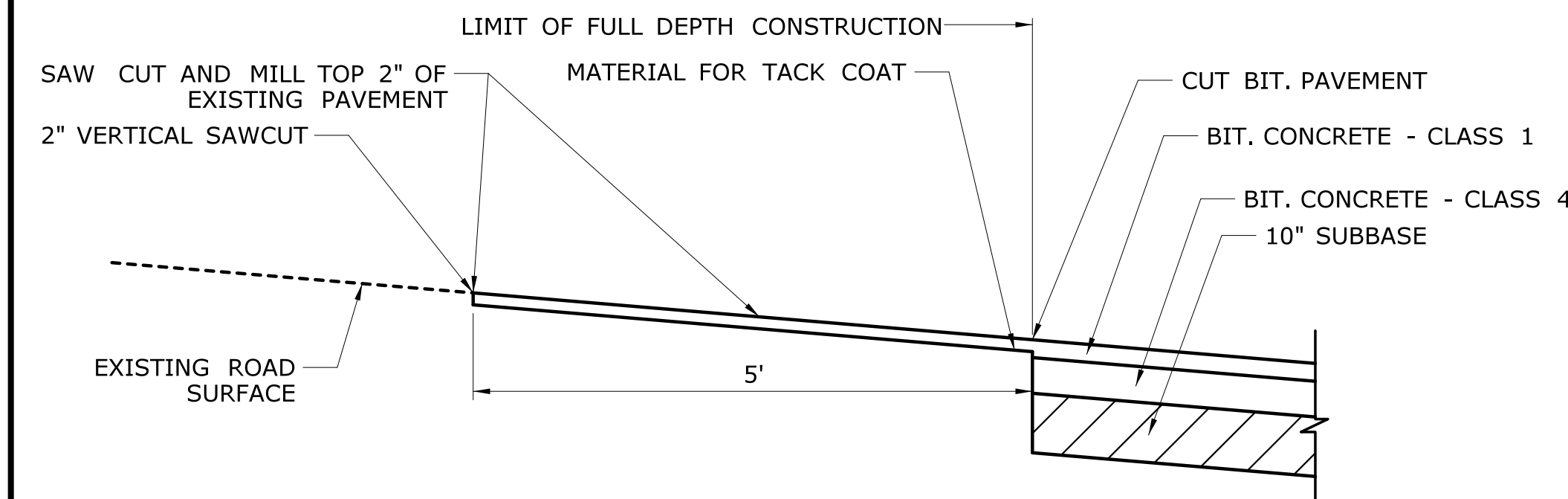
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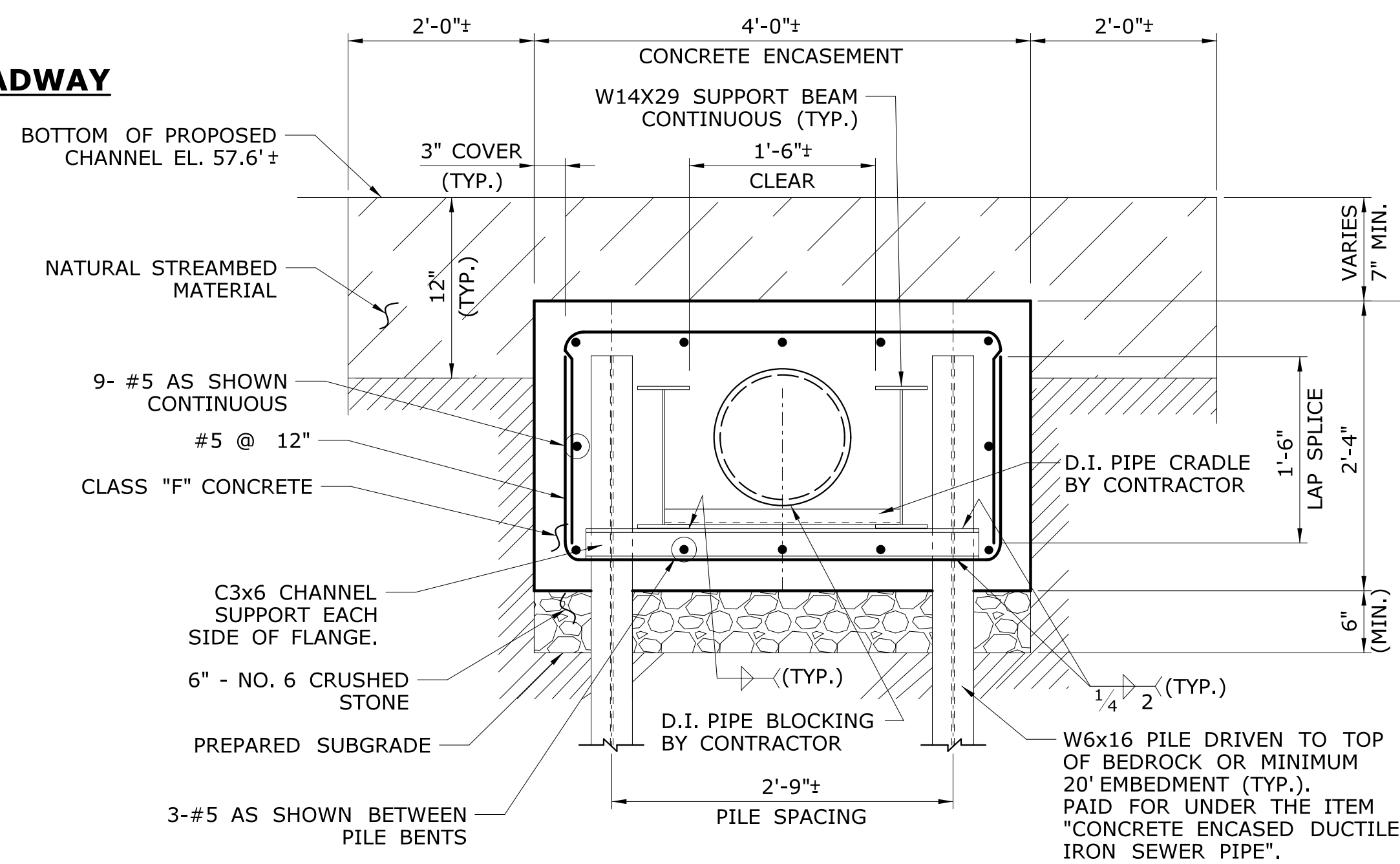
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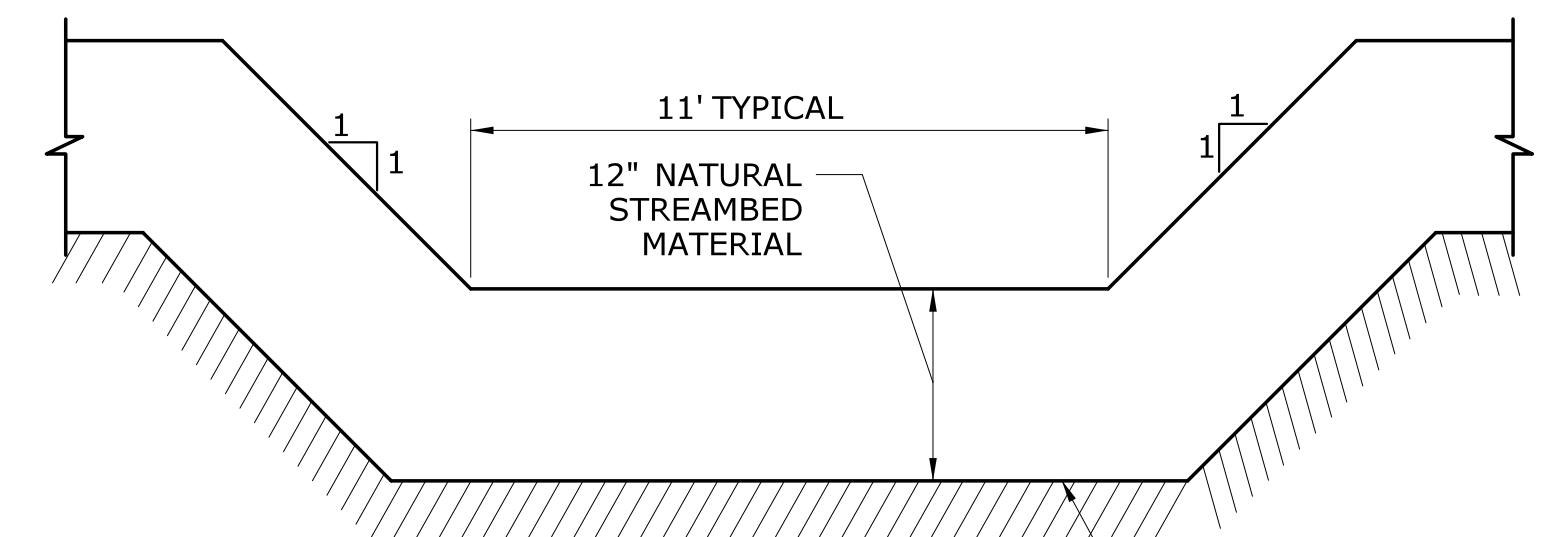
NOTE:
CONTRACTOR SHALL VERIFY ELEVATIONS PRIOR TO START OF WORK TO ENSURE PROPER CLEARANCE BETWEEN BOTTOM OF PRECAST ELEMENT AND TOP OF ENCASEMENT AT EACH ABUTMENT.



LONGITUDINAL SECTION OF APPROACH ROADWAY
NOT TO SCALE




PROPOSED CONCRETE ENCASED SEWER PIPE DETAIL
SECTION A-A
NOT TO SCALE

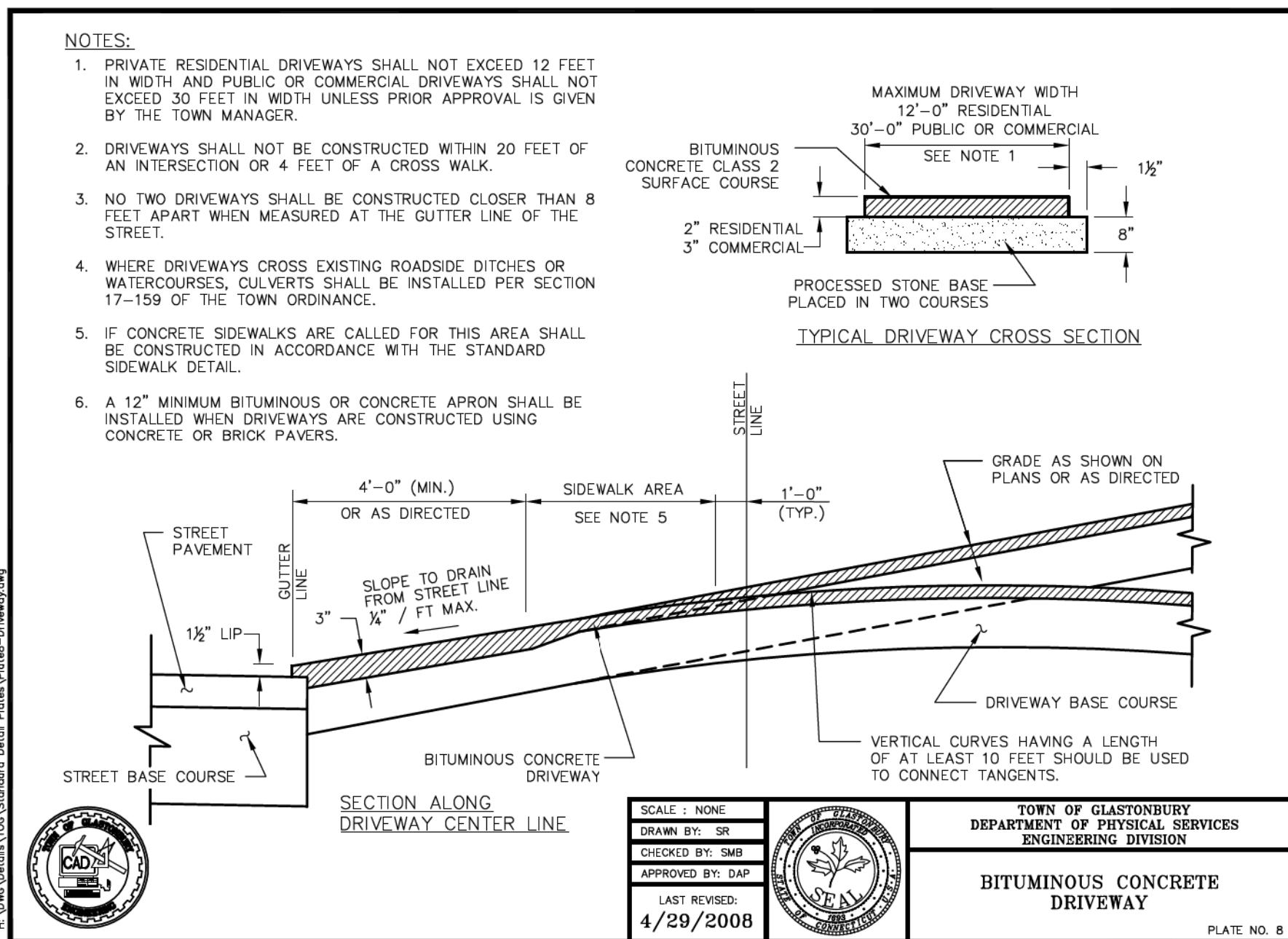
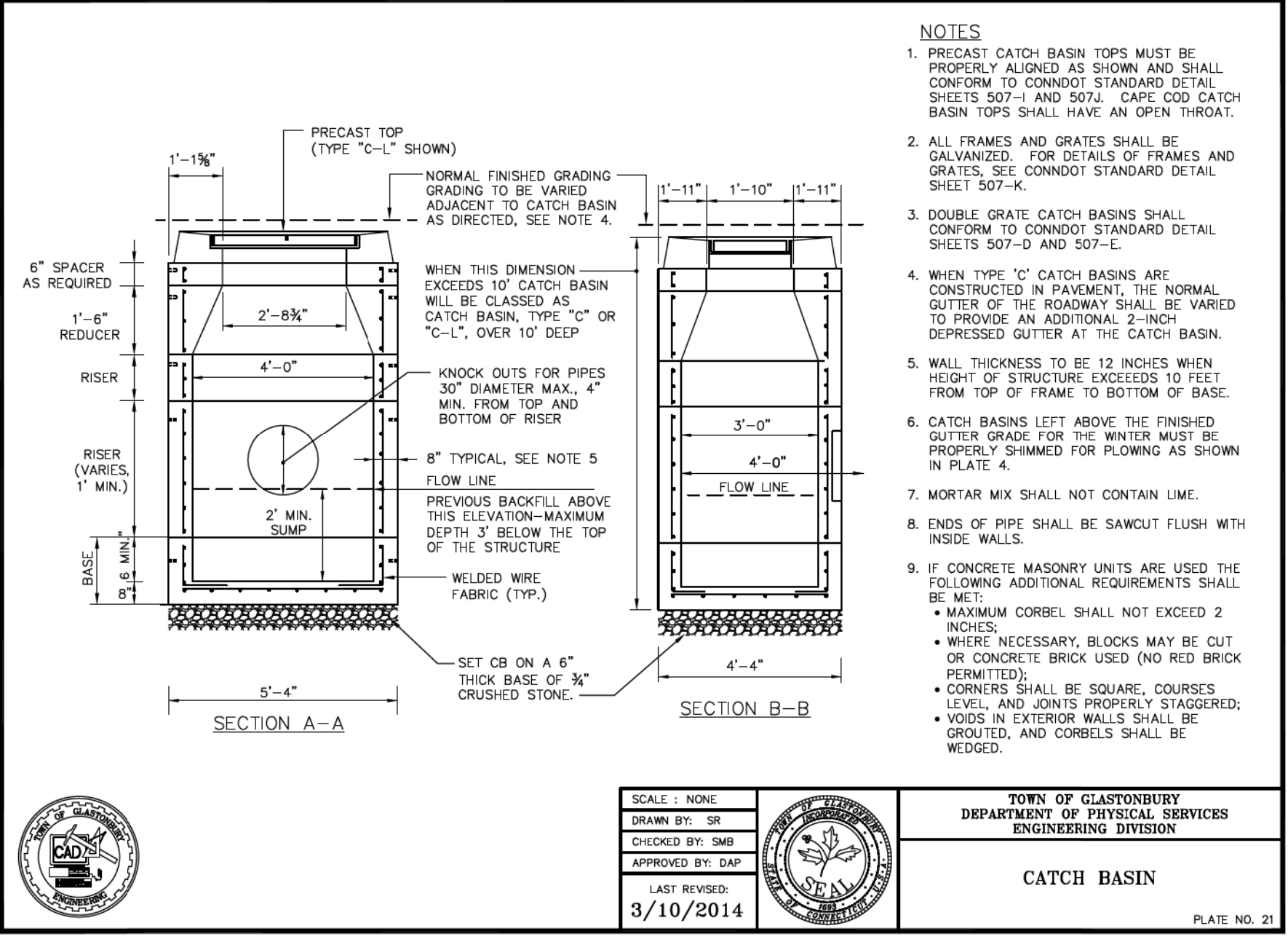
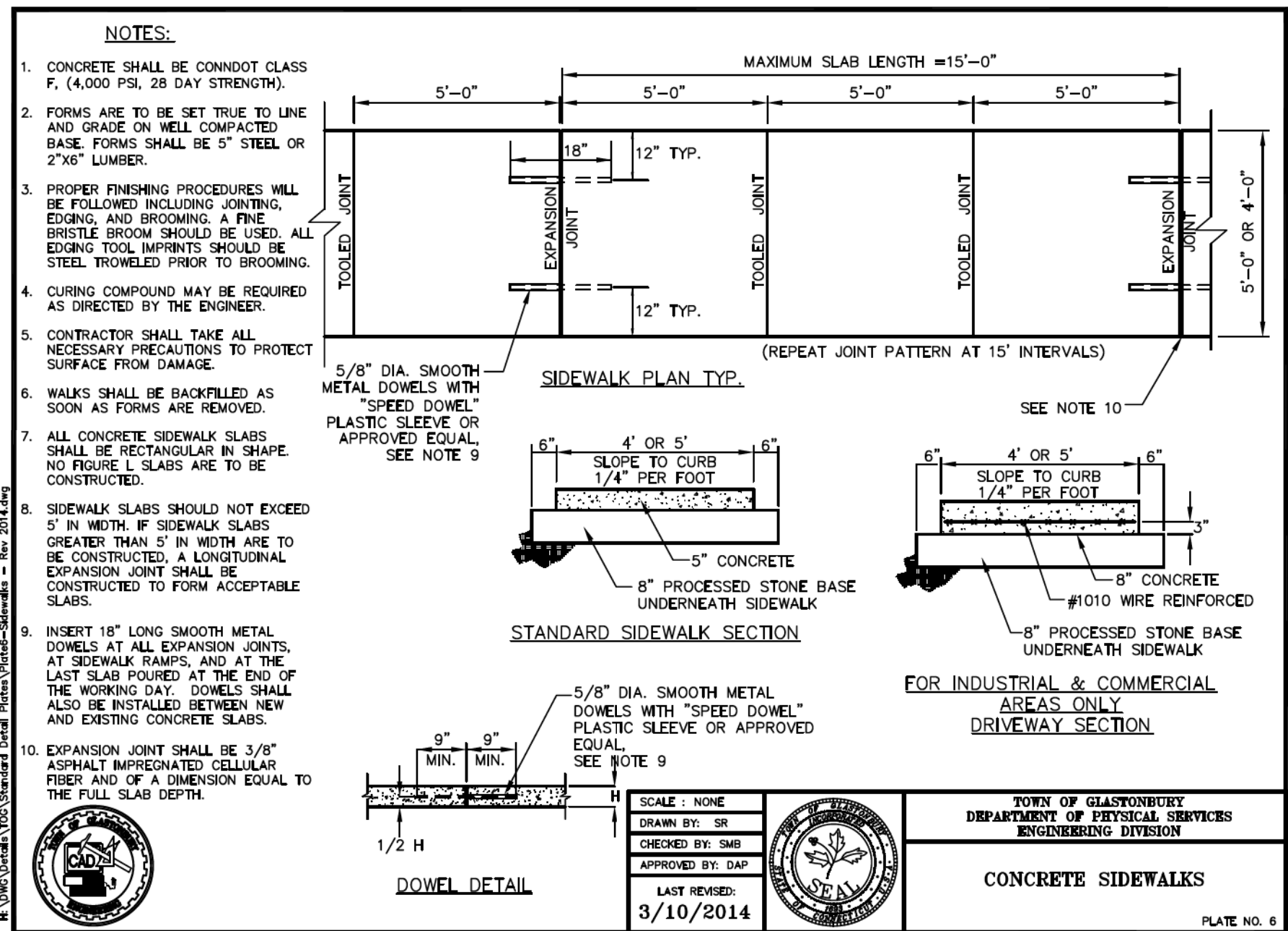
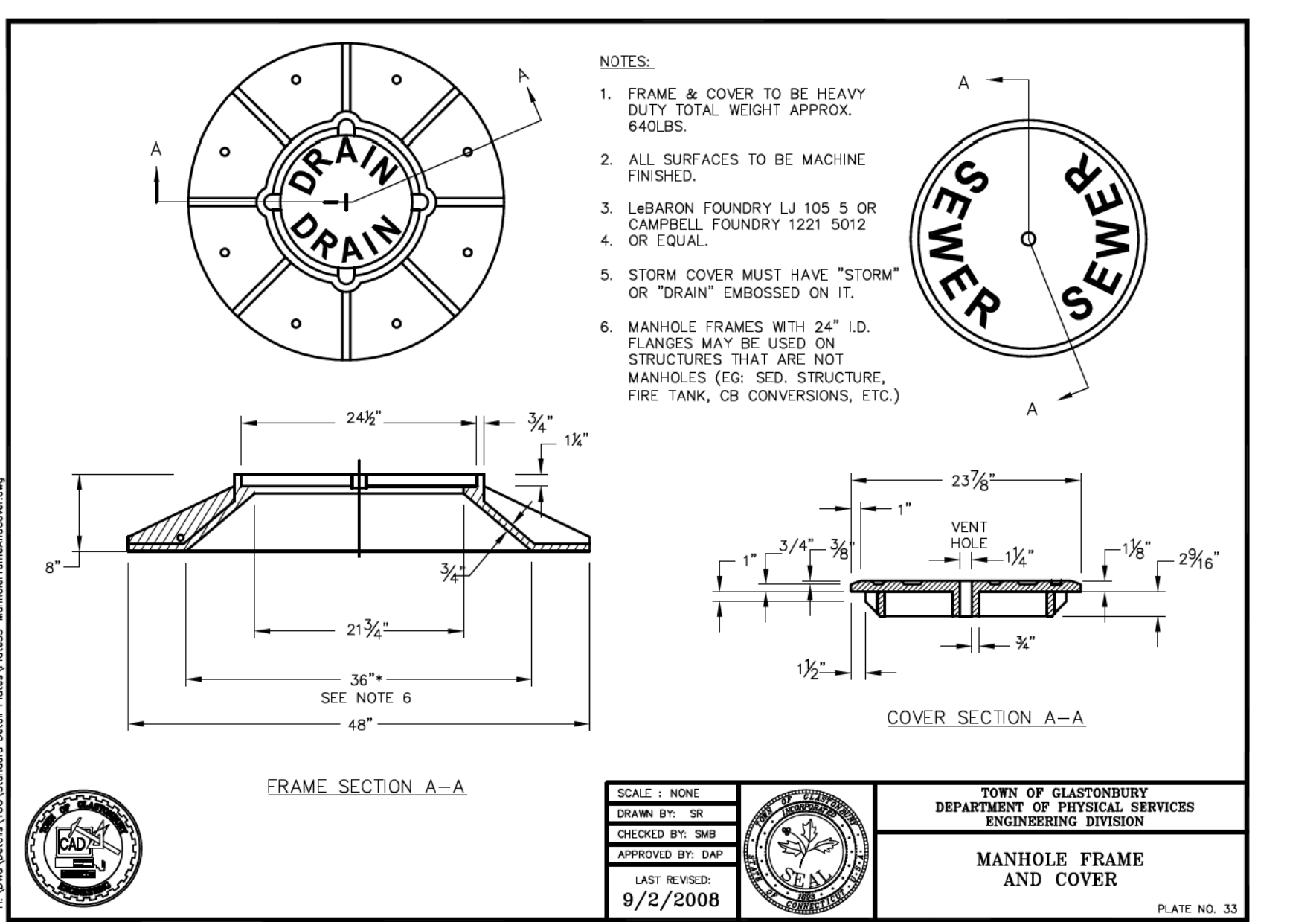
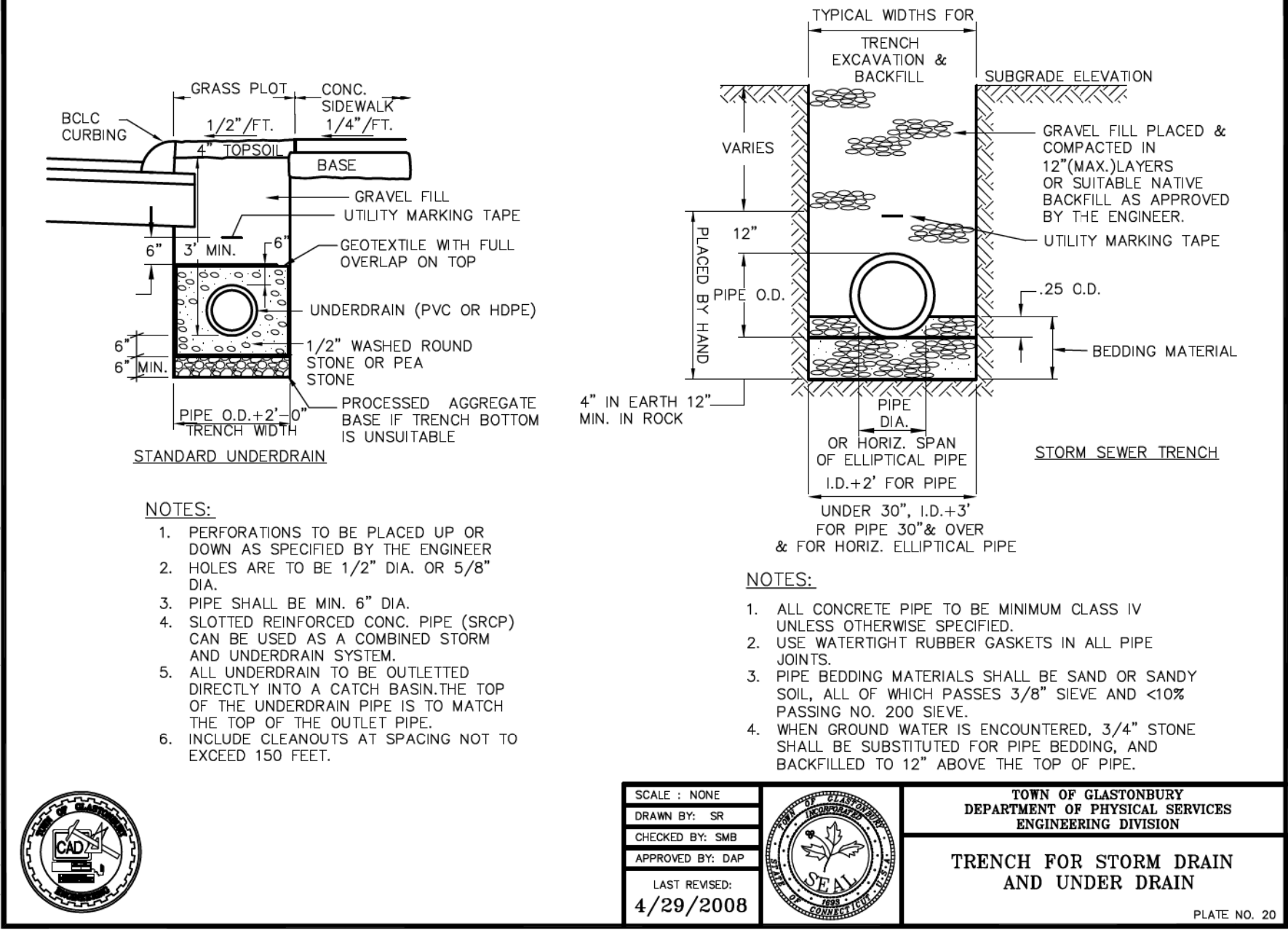
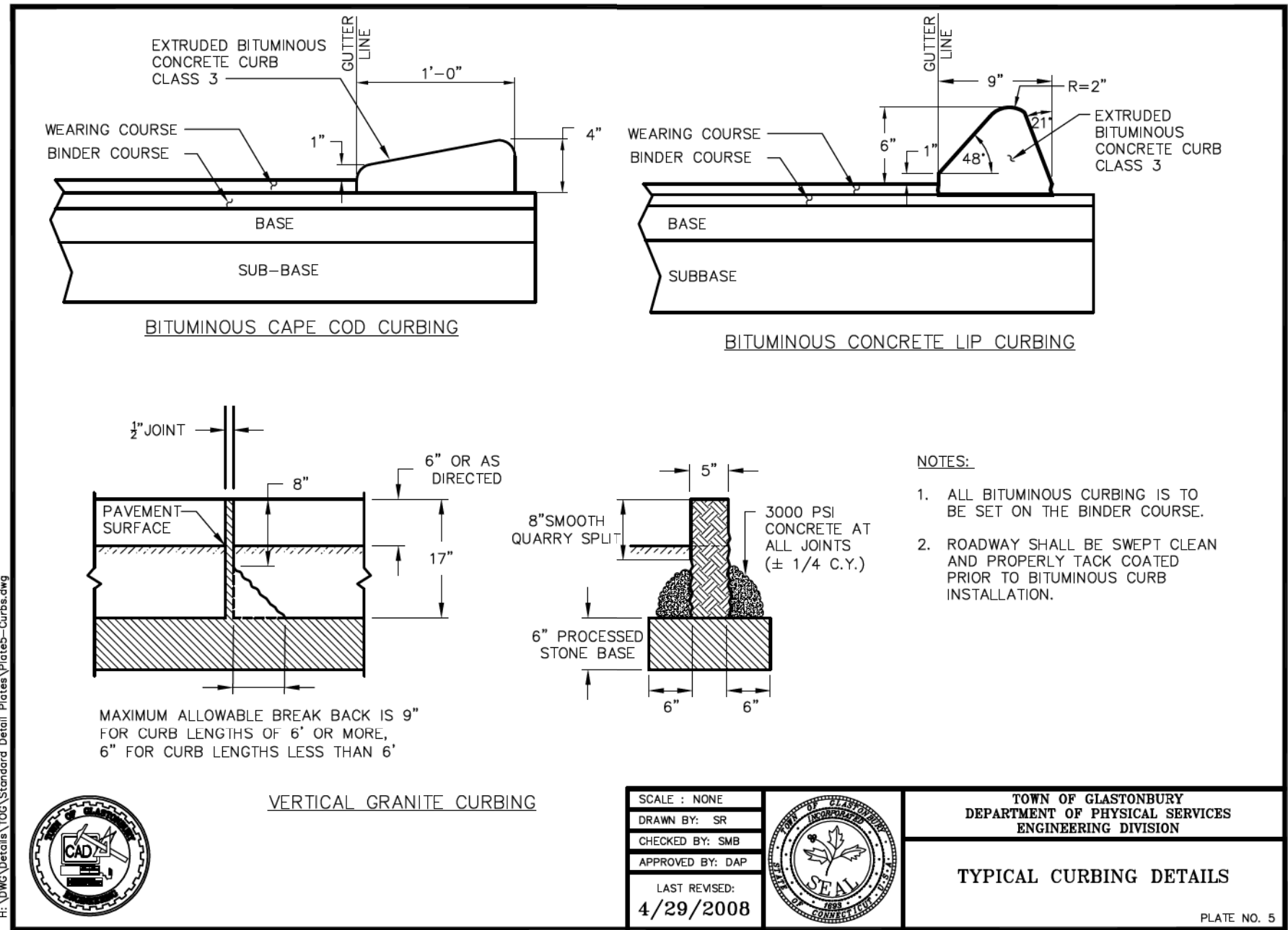


TYPICAL LOW FLOW CHANNEL SECTION
NOT TO SCALE

ENCASED SEWER PIPE NOTES:

1. THE DETAILS DEPICT THE PORTION OF PROPOSED SEWER PIPE UNDER THE WATERWAY TO BE EXTERNALLY SUPPORTED AND ENCASED IN CONCRETE. SEE SPECIAL PROVISION "CONCRETE ENCASED DUCTILE IRON SEWER PIPE".
2. CONTRACTOR SHALL VERIFY ALL ELEVATIONS AND DIMENSIONS PRIOR TO START OF WORK.
3. TEMPORARY SUPPORT OF EXCAVATION NECESSARY FOR THE INSTALLATION OF THE PROPOSED SEWER PIPE SHALL BE INCLUDED IN THE ITEM "CONCRETE ENCASED DUCTILE IRON SEWER PIPE."
4. CONTRACTOR SHALL PROVIDE BLOCKING AND CRADLE, AT HIS DISCRETION, TO SUPPORT THE SEWER PIPE AT THE PROPER ELEVATION UNTIL THE ENCASED CONCRETE HAS CURED. COST OF THIS WORK SHALL BE INCLUDED IN THE ITEM "CONCRETE ENCASED DUCTILE IRON SEWER PIPE."

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				SCALE AS NOTED					SHEET NO. 6			
REV.	DATE	REVISION	DESCRIPTION	SHEET NO.	Plotted Date: 1/26/2017	Filename: ...\\HW_MSH_053_188_DET-01.dgn						



REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/26/2017

DESIGNER/DRAFTER:
YKM

CHECKED BY:
PB

SCALE AS NOTED

TOWN OF GLASTONBURY

Filename: ...\\HW_MSH_053_188_DET-02.dgn

SIGNATURE/
BLOCK:

GM2 ASSOCIATES, INC.
115 GLASTONBURY BLVD.
GLASTONBURY, CT 06033

REPLACEMENT OF BRIDGE NO. 05608
EASTERN BOULEVARD
OVER SALMON BROOK

PROJECT TITLE:

REPLACEMENT OF BRIDGE NO. 05608
EASTERN BOULEVARD
OVER SALMON BROOK

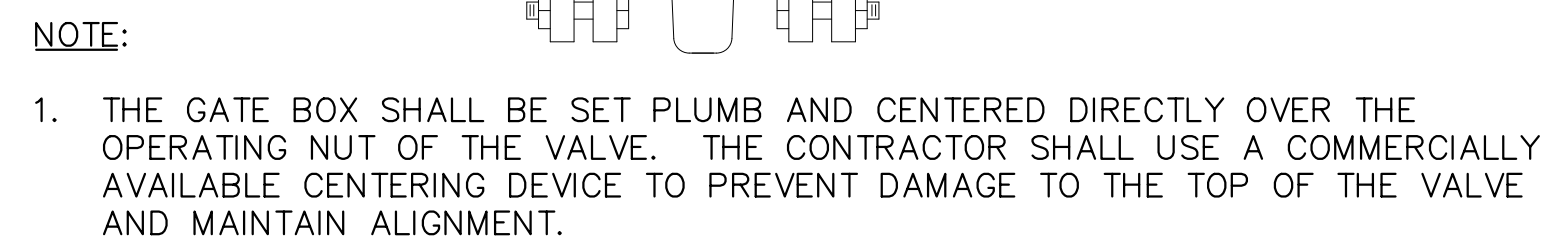
TOWN: **GLASTONBURY**

DRAWING TITLE:
DETAIL SHEET - 02

PROJECT NO.
0053-0188

DRAWING NO.
HWY-04

SHEET NO.
7



12" MAX.

FINISHED GRADE

THREADLED CAP

OPERATING ROD

BACKFILL MATERIAL SHALL BE BANK-RUN GRAVEL IN PAVED AREAS OR COMMON FILL IN UNPAVED AREAS.

ONLY COPPER TUBING

10" DWYER GATE BOX BOTTOM

WEDGE VALVE

CORPORATION COCK

WOOD BLOCK SPACER

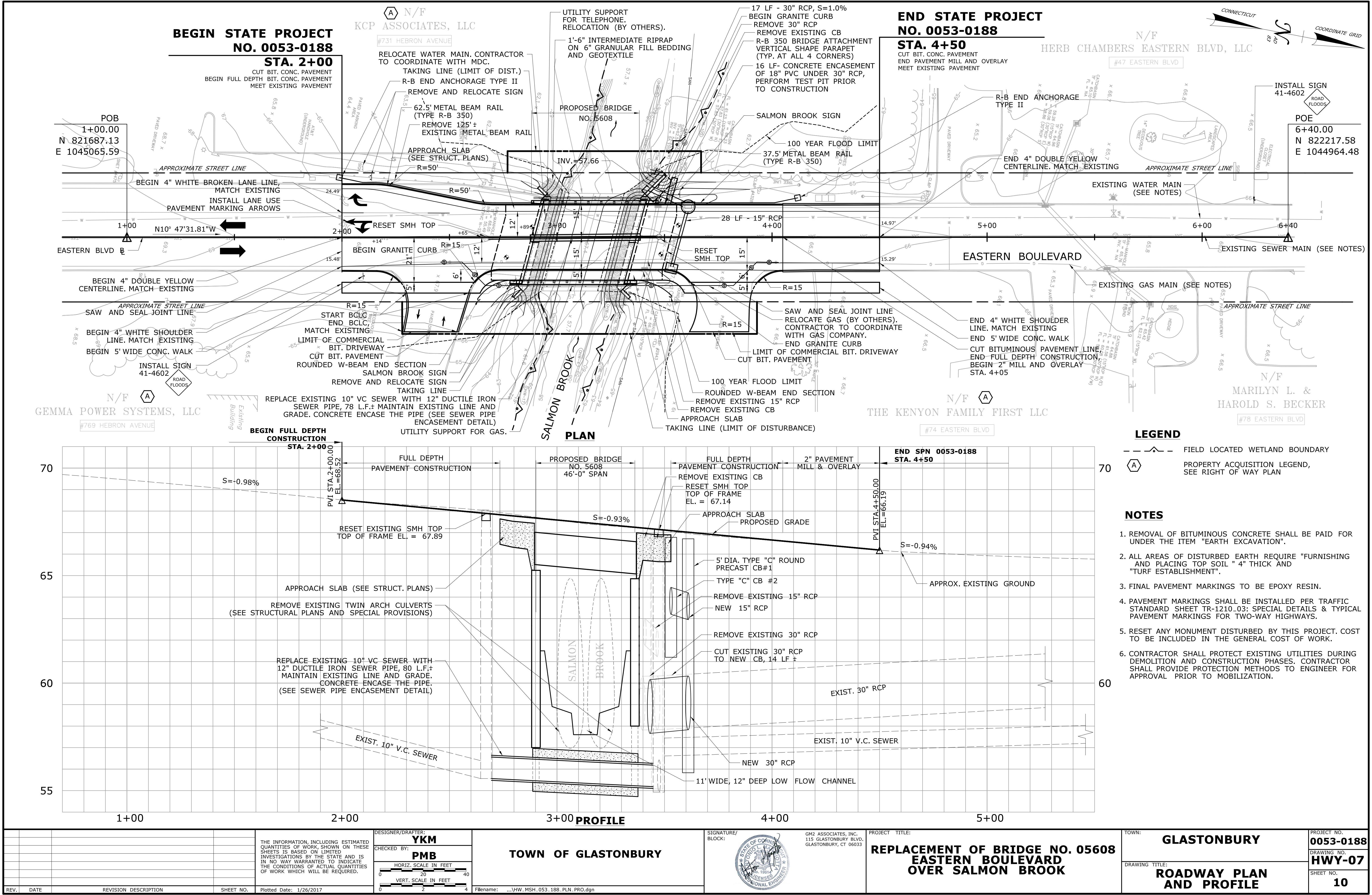
WATER MAIN

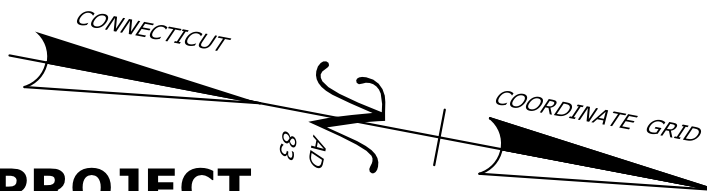
MAIN SIZE	CORPORATION COCK	WEDGE VALVE
6"-12"	$\frac{3}{4}$ " X 1"	1"
16"-42"	1- $\frac{1}{2}$ " X 2"	2"

NOTES:

- CHLORINATION INLET / BLOW-OFF

[illegible]





END OF PROJECT
MATCH EXISTING PAVEMENT
STA. 4+50
N 822030.944
E 1045000.058

Benchmark
Mag nail in
CL&P 4328
Elev.=69.34

BEGIN FULL DEPTH CONSTRUCTION
MATCH EXISTING PAVEMENT
STA. 2+00
N 821785.366
E 1045046.870

RELOCATE EXISTING
12" WATER MAIN
(BY CONTRACTOR)
BEGIN GRANITE CURB
16 LF - CONCRETE
ENCASEMENT AROUND
EXIST. 18" SANITARY
SEWER
17 LF - 30" RCP
TAPER GRANITE CURB
REVEAL FROM 8" TO 6"
SPECIAL, ROUND TYPE "C" CATCH
BASIN W/ GRANITE CURB INLET &
W/ 4' SUMP
TF=66.71
INV=62.95 (E)
INV=57.92 (N)
INV=57.83 (S)
(OVER 10' DEEP)

END GRANITE CURB
BEGIN BCLC

APPROXIMATE STREET LINE

(3) MAILBOXES
USPS, FED-EX
AND UPS

END OF FULL
DEPTH CONSTRUCTION

2" MILL & OVERLAY

EASTERN BOULEVARD

TURF EST.

END 5" THICK CONC. WALK

END GRANITE CURB 6" REVEAL

BEGIN GRANITE CURB (0" REVEAL), FLUSH

END 8" THICK CONC. WALK,
BEGIN 5" THICK CONC. WALK

END BCLC, FLUSH

5' WIDE CONC. WALK
THROUGH DRIVEWAY
(8" TYP. TOWN SECTION)

BEGIN BCLC

RELOCATE GAS (BY OTHERS).
CONTRACTOR TO COORDINATE
WITH GAS COMPANY.

CUT BIT. CONC. PAVEMENT
TAKING LINE

LIMIT OF PROPOSED
COMMERCIAL BIT. DRIVEWAY

TELECOMMUNICATIONS DUCT

30" MAPLE

x 66.7

x 66.3

x 66.2

x 66.1

x 66.0

x 65.9

x 65.8

x 65.7

x 65.6

x 65.5

x 65.4

x 65.3

x 65.2

x 65.1

x 65.0

x 64.9

x 64.8

x 64.7

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x 64.4

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x 39.7

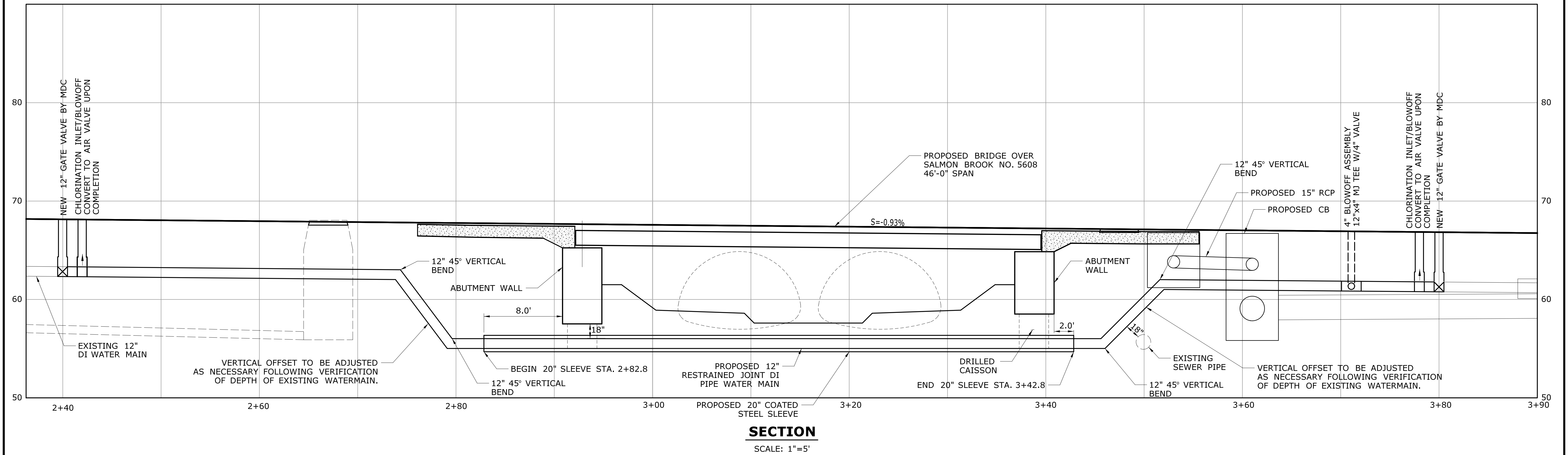
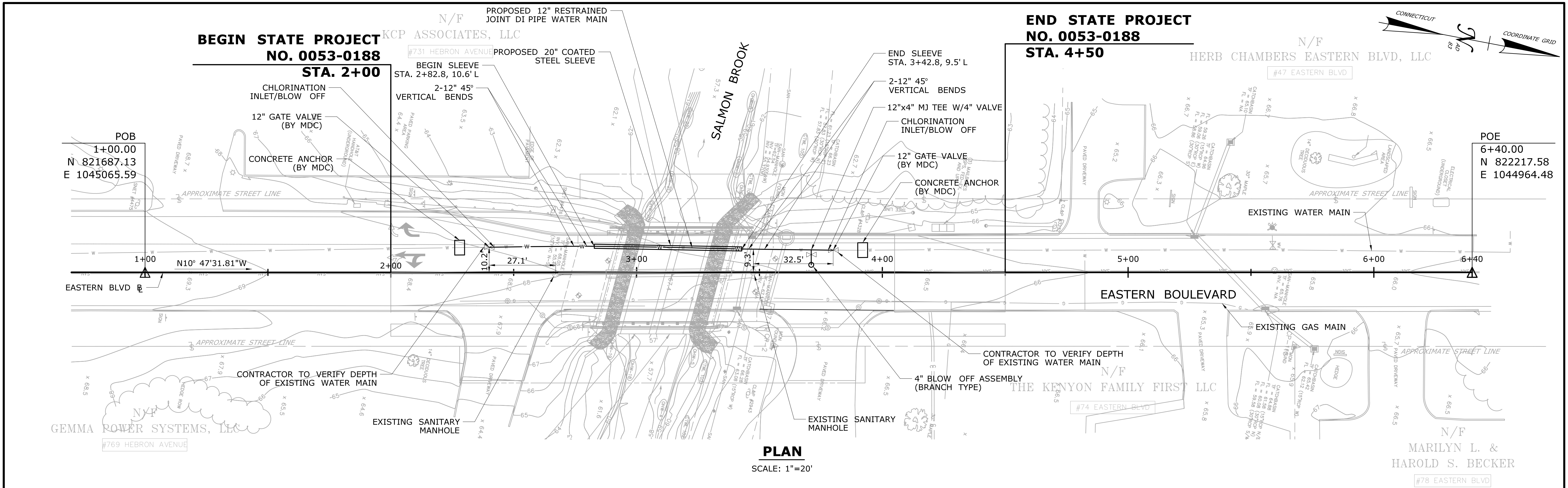
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x 39.5

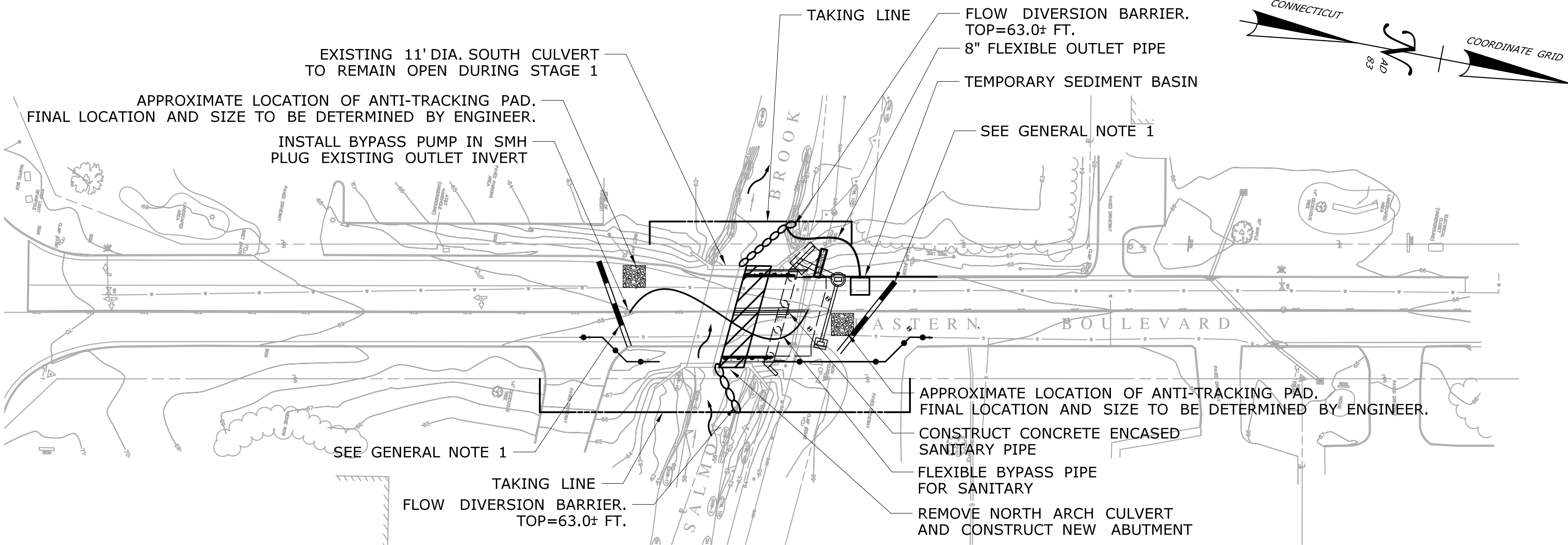
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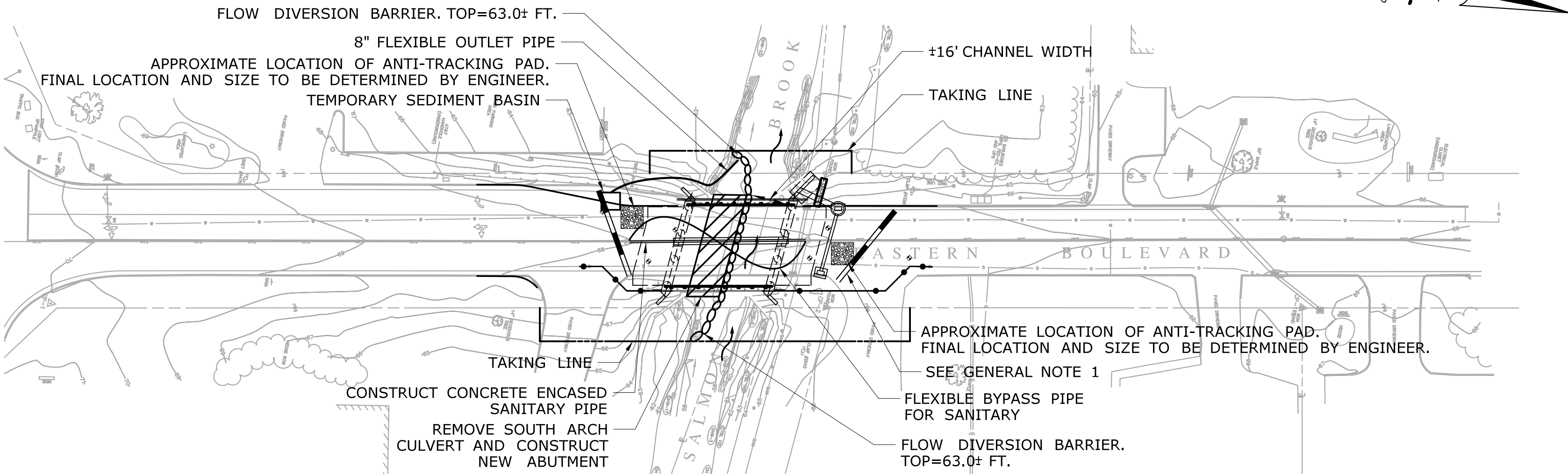
x 39.2



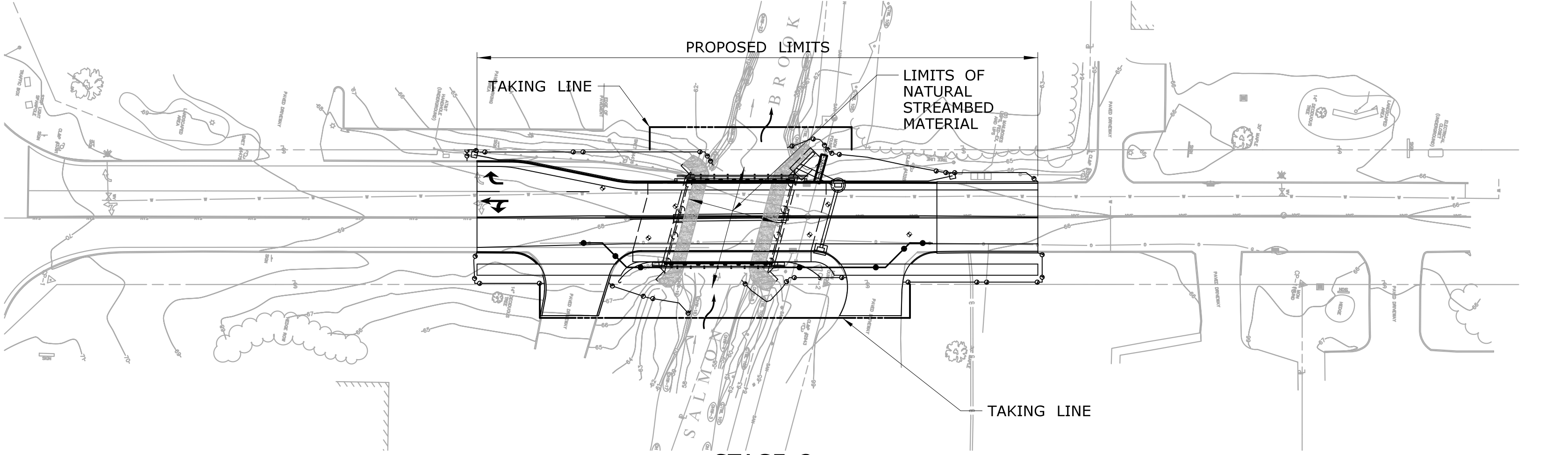
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REV.		DATE		REVISION DESCRIPTION		SHEET NO.		Plotted Date: 1/26/2017											



STAGE 1
NOT TO SCALE



STAGE 2
NOT TO SCALE



STAGE 3
NOT TO SCALE

PRE-STAGE 1

1. INSTALL DRILLED SHAFTS USING ALTERNATING ONE WAY TRAFFIC DURING ALLOWABLE PERIODS.
2. CONTRACTOR TO PROVIDE ENGINEER METHOD OF PLATING OVER ROADWAY EACH NIGHT FOR APPROVAL.

STAGE 1

- PRIOR TO ANY ROADWAY CLOSURE, CONTRACTOR SHALL COORDINATE WITH TOWN OF GLASTONBURY. SEE SPECIAL PROVISIONS AND DETOUR PLANS FOR ADDITIONAL REQUIREMENTS.

1. PLACE TEMPORARY PRECAST CONCRETE BARRIER CURB AND RELATED TRAFFIC CONTROL ITEMS AS SHOWN ON THE WORK ZONE CLOSURE PLAN (SEE GENERAL NOTE 1)
2. ESTABLISH SEDIMENTATION AND EROSION CONTROL PLAN.
3. INSTALL PUMP DISCHARGE TEMP. SEDIMENTATION BASIN. (SEE GENERAL NOTE 4 AND 5)
4. ESTABLISH FLOW DIVERSION BARRIERS AS REQUIRED TO PERFORM WORK IN THE DRY, EXISTING 11' DIA. SOUTH CULVERT TO REMAIN OPEN FOR FLOW DURING STAGE 1.
5. INSTALL BYPASS SANITARY PUMPS. (SEE SPECIAL PROVISIONS)
6. REMOVE EXISTING NORTH ARCH. STRUCTURE.
7. INSTALL ABUTMENT NO. 2 AND WINGWALLS.
8. INSTALL NORTH PORTION OF CONCRETE ENCASED 12" SEWER PIPE.
9. INSTALL WATER (BY CONTRACTOR) AND GAS (BY OTHERS.)
10. INSTALL PROPOSED DRAINAGE.
11. INSTALL RIPRAP AND STABILIZE ALL SLOPES.
12. PLACE NATURAL STREAMBED MATERIAL ON NORTHERN SIDE PRIOR TO OPENING UP FOR STAGE 2.

STAGE 2

1. REPEAT STAGE 1 CONSTRUCTION STEPS 1 THROUGH 5, AS APPLICABLE, FOR THE SOUTHERN PORTION OF THE PROPOSED WORK.
2. OPEN ±16' WIDE NORTHERN PORTION OF CHANNEL TO FLOW, RELOCATED DIVERSION BARRIERS TO ISOLATE SOUTH CULVERT.
2. REMOVE EXISTING SOUTH ARCH. STRUCTURE.
3. INSTALL ABUTMENT NO. 1 AND WINGWALLS.
4. INSTALL REMAINING SOUTH PORTION OF CONCRETE ENCASED 12" SEWER PIPE.
5. CONSTRUCT SOUTHERN PORTION OF LOW FLOW CHANNEL
6. INSTALL RIPRAP, REPLACE NATURAL STREAMBED MATERIAL IN FORMED CHANNEL AND STABILIZE ALL EMBANKMENTS.
7. ERECT PROPOSED PRECAST PRESTRESSED CONCRETE DECK UNITS.

AVERAGE DAILY FLOW	12.96 CFS
AVERAGE SPRING FLOW	25.48 CFS
2-YEAR FREQUENCY DISCHARGE *	CFS
TEMPORARY DESIGN DISCHARGE	540 CFS
TEMPORARY DESIGN FREQUENCY	2 YEAR
TEMPORARY WATER SURFACE ELEVATION UPSTREAM	62.61 FT
TEMPORARY WATER SURFACE ELEVATION DOWNSTREAM	61.69 FT


* NOT INCLUDED IF SAME AS TEMPORARY DESIGN DISCHARGE

STAGE 3

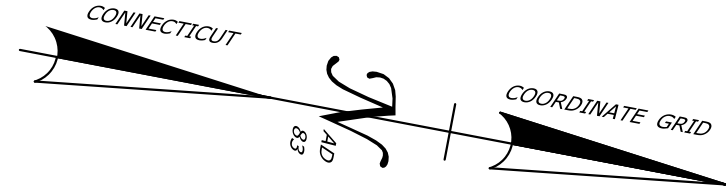
1. REPEAT STAGE 1 CONSTRUCTION STEPS 1 AND 2.
2. PERFORM APPROACH ROADWAY AND SIDEWALK WORK WITHIN THE PROJECT LIMITS AS SHOWN ON THE ROADWAY PLANS.
3. AFTER COMPLETION OF STAGE, PLACE FINAL WEARING COURSE OF BITUMINOUS IN ONE OPERATION OVER THE FULL PROJECT LIMITS TO CREATE A CLEAN UNIFORM SURFACES.

GENERAL NOTES

1. CONTRACTOR SHALL REFER TO DETOUR PLAN DWG HWY-15 FOR ROAD CLOSURE DETAILS AND SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
2. UNCONFINED IN-STREAM ACTIVITIES SHALL BE LIMITED TO TIME PERIOD JUNE 1 THROUGH SEPTEMBER 30.
3. THE PROJECT SHALL NOT BE CONDUCTED IN A MANNER WHICH IMPEDES STREAM FLOW.
4. EFFLUENT FROM DEWATERED WORK AREAS SHALL NOT BE DISCHARGED DIRECTLY TO THE STREAM BUT PROCESSED THROUGH TREATMENT DEWATERING STRUCTURES. SUCH STRUCTURES SHALL NOT BE LOCATED WITHIN THE STREAMCHANNEL OR ADJACENT WETLANDS.
5. ALL APPROPRIATE EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE ESTABLISHED PRIOR TO AND MAINTAINED THROUGH ALL CONSTRUCTION PHASES.
6. BEFORE INITIATING CONSTRUCTION, CONTRACTOR SHALL SUBMIT PLAN FOR APPROVAL DEFINING METHOD OF CONSTRUCTION AND PROTECTION OF THE STREAM AREA DURING REMOVAL OF EXISTING STRUCTURE. COST TO BE INCLUDED IN COST OF REMOVAL OF SUPERSTRUCTURE.
7. BEFORE INITIATING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A PLAN FOR APPROVAL THAT DEFINES METHODS AND MATERIALS FOR CONTROLLING STREAM WATERS (COFFERDAMS, ETC), DEWATERING, EVACUATION, AND PROTECTING THE STREAM DURING ALL STAGES OF CONSTRUCTION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "HANDLING WATER".
8. EXCAVATION AND PROTECTING THE STREAM DURING ALL STAGES OF CONSTRUCTION SHALL BE INCLUDED IN THE COST OF "STRUCTURE EXCAVATION - EARTH (COMPLETE)".

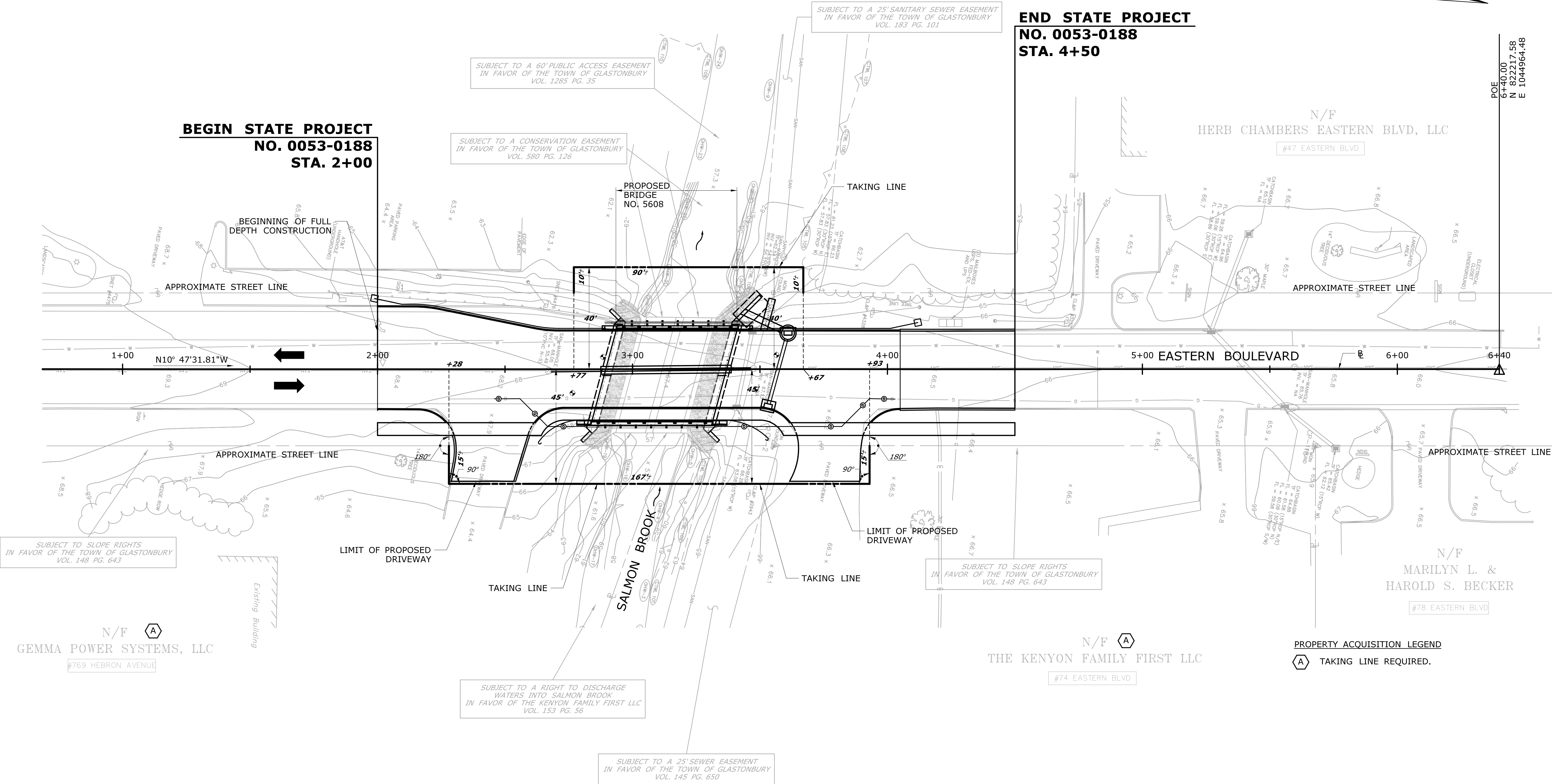
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				SCALE AS NOTED	SHEET NO. 13				
				Filename: ...\\Plan\\HW_MSH_053_188_STG.dgn					
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/26/2017					

N/F 
KCP ASSOCIATES, LLC
#731 HEBRON AVENUE



END STATE PROJECT
NO. 0053-0188
STA. 4+50

BEGIN STATE PROJECT
NO. 0053-0188
STA. 2+00



POE
6+40.00
N 822217.58
E 1044964.48

N/F 
GEMMA POWER SYSTEMS, LLC
#769 HEBRON AVENUE

N/F 
THE KENYON FAMILY FIRST LLC
#74 EASTERN BLVD

PROPERTY ACQUISITION LEGEND

 TAKING LINE REQUIRED.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/26/2017

DESIGNER/DRAFTER: YKM
CHECKED BY: ALM
SCALE IN FEET 0 20 40 SCALE 1"=20'

TOWN OF GLASTONBURY

Filename: ...\\HW_MSH_053_188_ROW-TITLE.dgn

SIGNATURE/
BLOCK:



GM2 ASSOCIATES, INC.
115 GLASTONBURY BLVD.
GLASTONBURY, CT 06033

PROJECT TITLE:

**REPLACEMENT OF BRIDGE NO. 05608
EASTERN BOULEVARD
OVER SALMON BROOK**

TOWN:

GLASTONBURY

DRAWING TITLE:

RIGHT OF WAY PLAN

PROJECT NO.

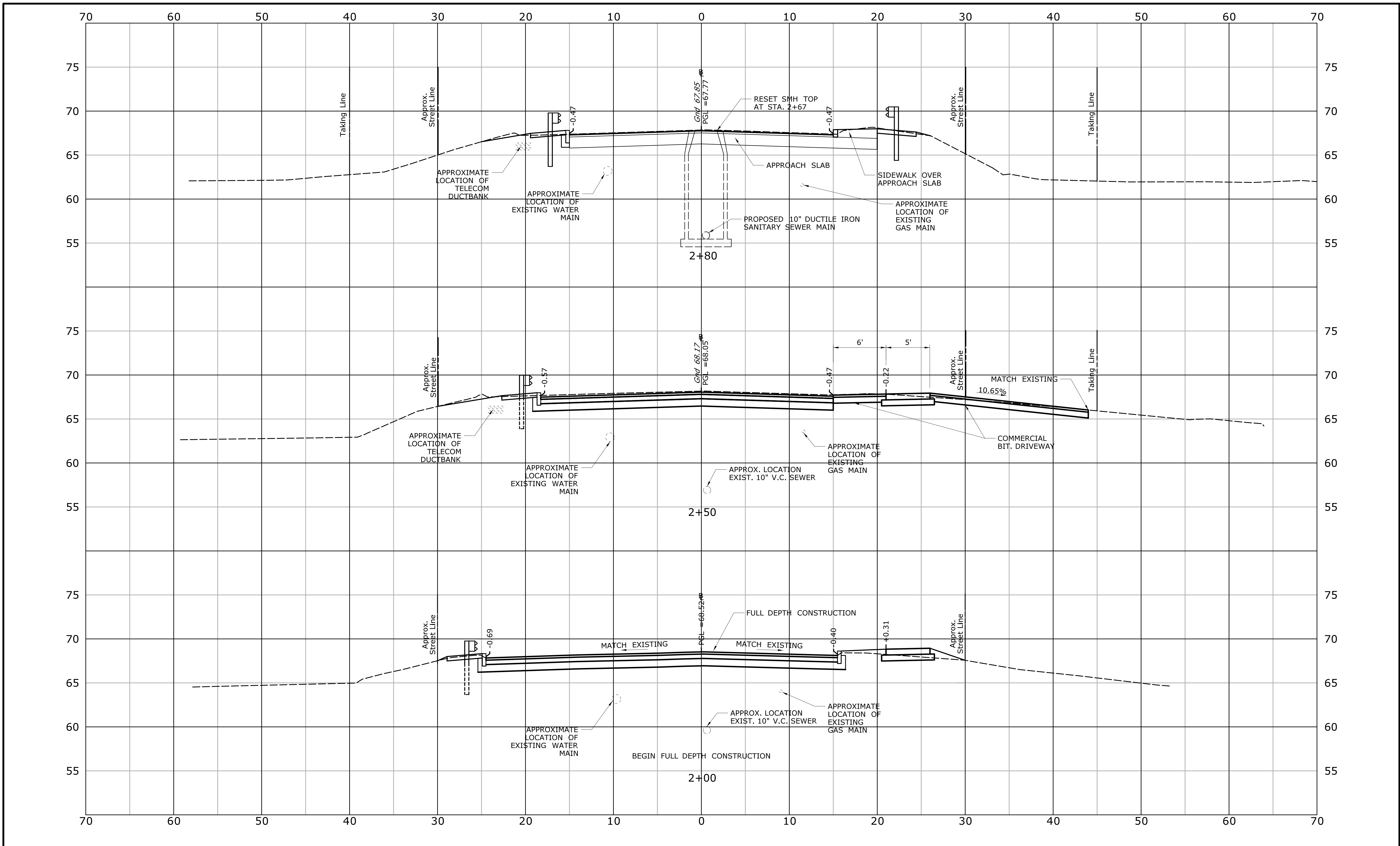
0053-0188

DRAWING NO.

HWY-11

SHEET NO.

14



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/26/2017

DESIGNER/DRAFTER:
YKM

CHECKED BY:
PB

SCALE IN FEET

0 5 10

SCALE 1" = 5'

TOWN OF GLASTONBURY

Filename: ...\\HW_MSH_053-188_XSC-01.dgn

SIGNATURE/
BLOCK:



GM2 ASSOCIATES, INC.
115 GLASTONBURY BLVD.
GLASTONBURY, CT 06033

PROJECT TITLE:

**REPLACEMENT OF BRIDGE NO. 05608
EASTERN BOULEVARD
OVER SALMON BROOK**

TOWN:

GLASTONBURY

DRAWING TITLE:

CROSS SECTION - 01

PROJECT NO.

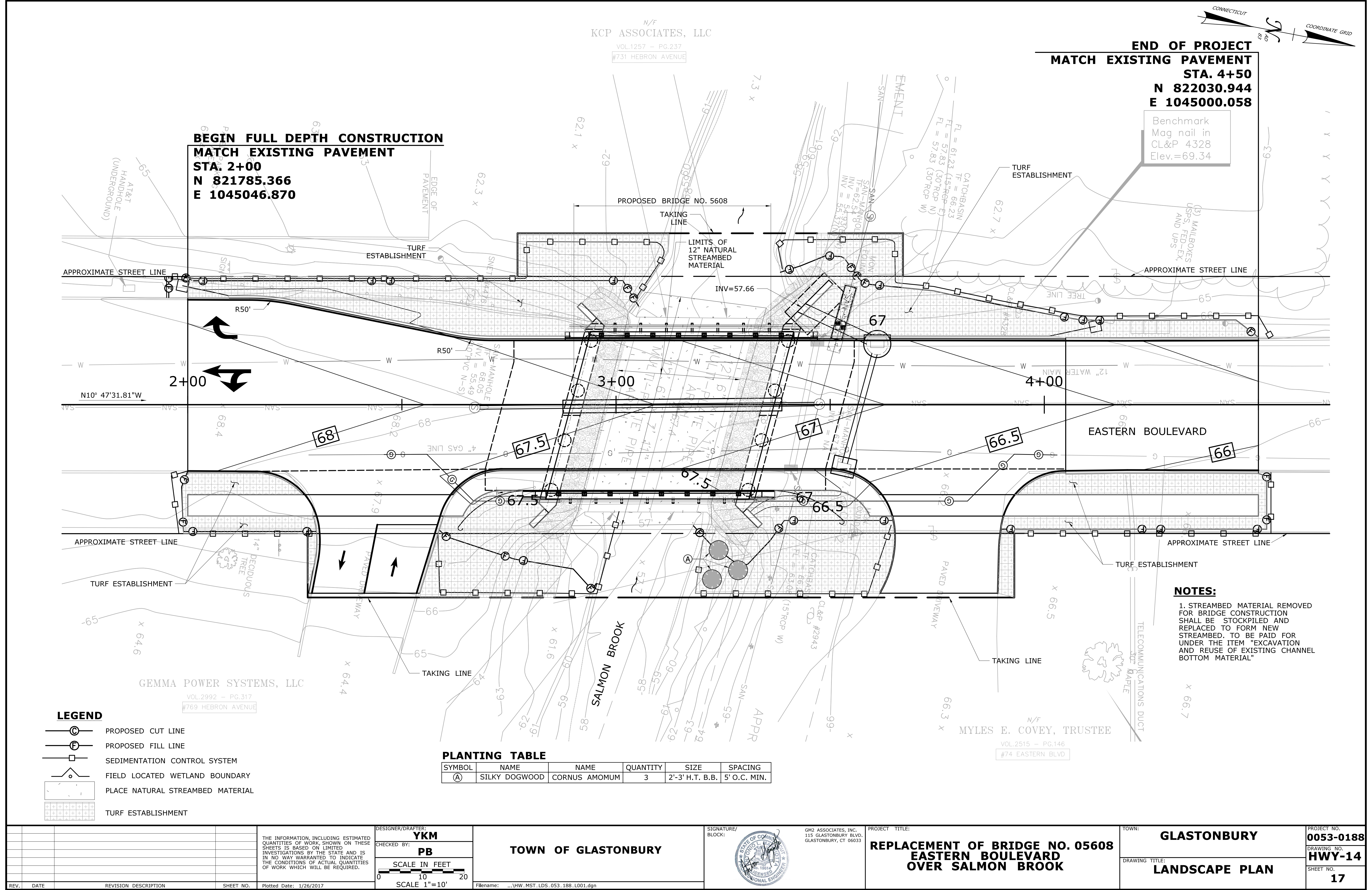
0053-0188

DRAWING NO.

HWY-12

SHEET NO.

15





NOTES:

1. REFER TO THE SPECIAL PROVISIONS AND SPECIFICATIONS "MAINTENANCE AND PROTECTION OF TRAFFIC" AND "PROSECUTION AND PROGRESS" FOR ADDITIONAL REQUIREMENTS.
2. ALL ROADWAY CLOSURES SHALL BE COORDINATED WITH THE TOWN OF GLASTONBURY.
3. ACTUAL LOCATIONS OF SIGNS TO BE DETERMINED BY THE ENGINEER.
4. ALL DETOUR SIGNS TO BE PAID FOR UNDER ITEM NO. 1220027 "CONSTRUCTION SIGNS".
5. CONTRACTOR TO NOTIFY THE ENGINEER, THE TOWN OF GLASTONBURY AND ALL EMERGENCY SERVICES AT LEAST TWO WEEKS PRIOR TO THE ROADWAY CLOSURE.
6. AT LEAST TWO WEEKS PRIOR TO INITIATING DETOUR, INSTALL REMOTE CONTROLLED CHANGEABLE MESSAGE SIGN (CMS) ON EASTERN BOULEVARD IN BOTH DIRECTIONS NOTIFYING ABOUT UPCOMING ROAD CLOSURE. ACTUAL LOCATIONS OF CMS TO BE VERIFIED BY THE ENGINEER.

DETOUR PLAN
NOT TO SCALE

7. ANY RELOCATING OF TPCBC REQUIRED FOR CONTRACTOR'S DAILY ACCESS SHALL NOT BE MEASURED FOR PAYMENT AND INCLUDED IN THE GENERAL COST OF THE PROJECT.
8. CONTRACTOR SHALL MAINTAIN PRIVATE DRIVEWAY ACCESS AT ALL TIMES.
9. CLOSURE PLAN TO BE MAINTAINED DURING EXISTING BRIDGE DEMOLITION AND PROPOSED BRIDGE CONSTRUCTION. SEE SPECIAL PROVISIONS-LIQUIDATED DAMAGES.
10. EXISTING SIGNS TO BE REMOVED OR COVERED IF IN CONFLICT WITH DETOUR PLAN SIGNS.
11. SIGN (M) "BUSINESS OPEN" TO BE LOCATED AS DIRECTED BY THE ENGINEER.

ROUTE 94 (HEBRON AVE.)

LEGEND

- + SIGN - SINGLE POST
- + SIGN - DOUBLE POST
- ▤ CONSTRUCTION BARRICADE - TYPE III
- └ SIGN MOUNTED ON CONSTRUCTION BARRICADE/TPCBC
- ▬ TEMPORARY PRECAST CONCRETE BARRIER CURB
- * SIGN WITH HIGH INTENSITY BARRICADE WARNING LIGHT
- CMS REMOTE CONTROLLED CHANGEABLE MESSAGE SIGN. SEE NOTE 6.

SIGN LEGEND

(A) 80-9078

(B) 80-9710 (L)

(C) 80-9710 (R)

(D) 80-9708

(E) 30"

(F) 80-9933

(G) 80-9080

(H) 31-1120

(I) 80-9710 (S)

(J) 80-9933

(K) 80-9933

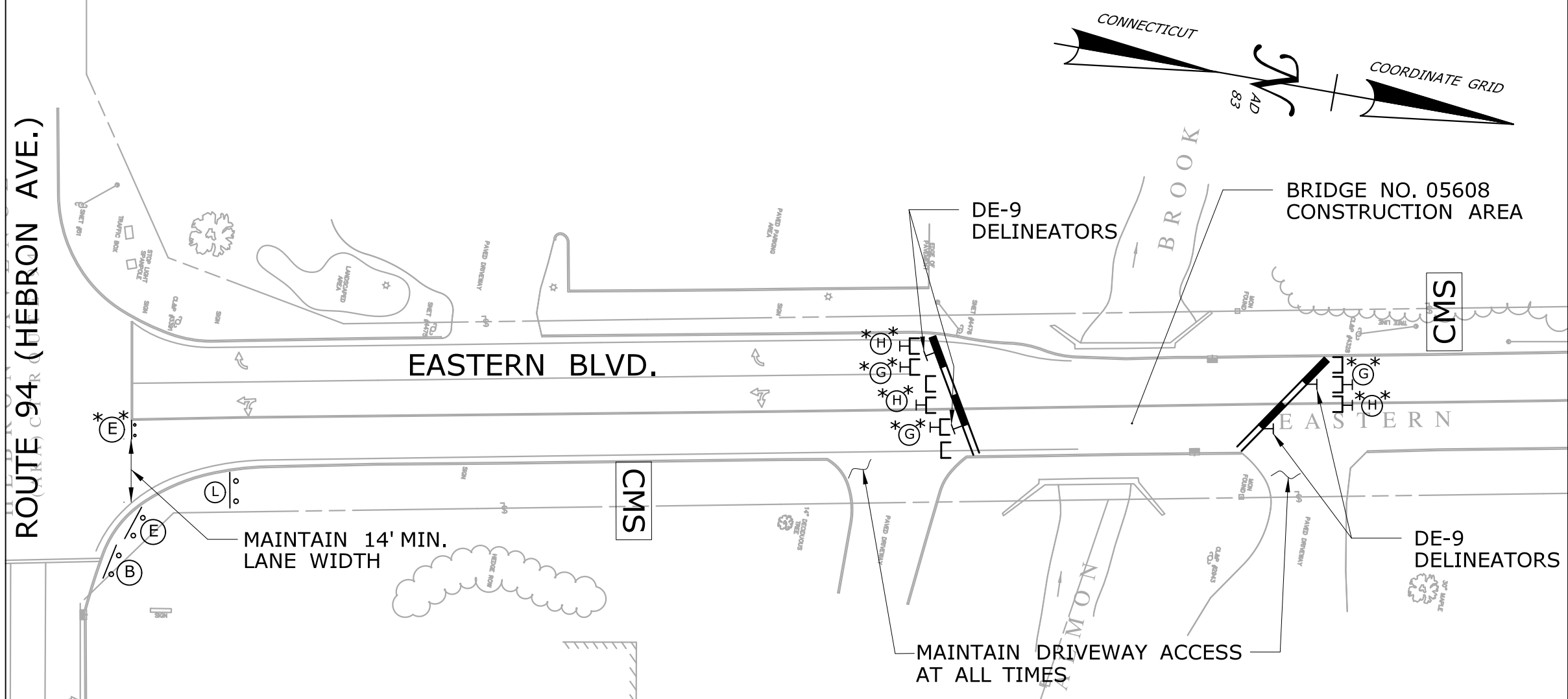
(L) 80-1613

(M) 50-5934

30" 10"

BACKGROUND ORANGE
BLACK LEGEND

WORK ZONE CLOSURE PLAN
SCALE: 1" = 40'




SUGGESTED CMS MESSAGE

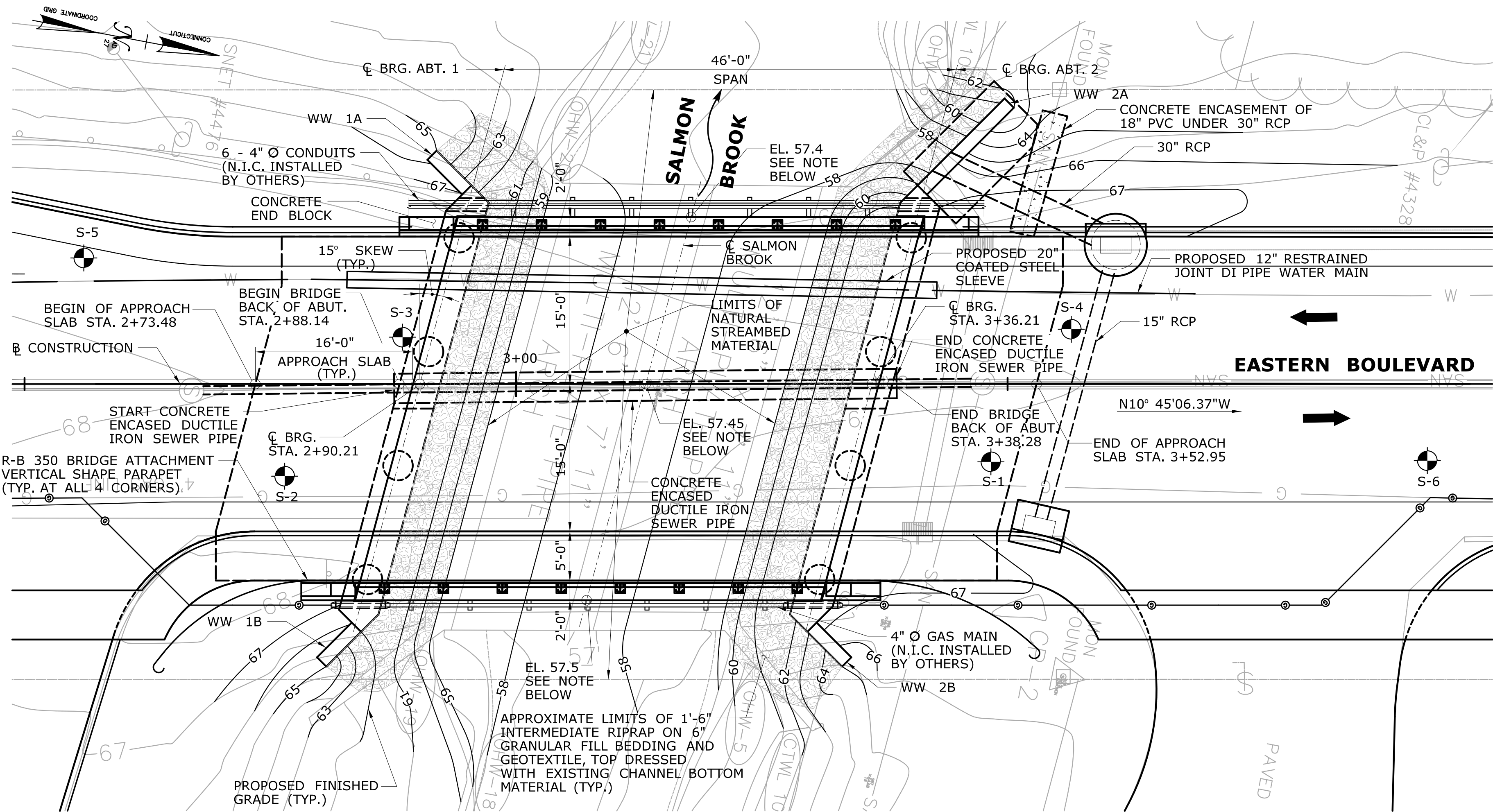
**EASTERN
BLVD
DETOUR**

FRAME 1

**STARTING
(DATE)**

FRAME 2

				DESIGNER/DRAFTER: SJ		STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	<div>SIGNATURE/ BLOCK: </div>	PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 05608 EASTERN BOULEVARD OVER SALMON BROOK	TOWN: GLASTONBURY	PROJECT NO. 0053-0188		
				CHECKED BY: VAA							DRAWING TITLE: DETOUR PLAN	SHEET NO. 18
				SCALE AS NOTED								
				Plotted Date: 1/26/2017								
				The information, including estimated quantities of work, shown on these sheets is based on limited investigations by the state and is in no way warranted to indicate the conditions of actual quantities of work which will be required.								
REV.	DATE	REVISION DESCRIPTION	SHEET NO.			Filename: ...\\Traffic\\TR_MSH_DTR_053_188.dgn						



LEGEND:



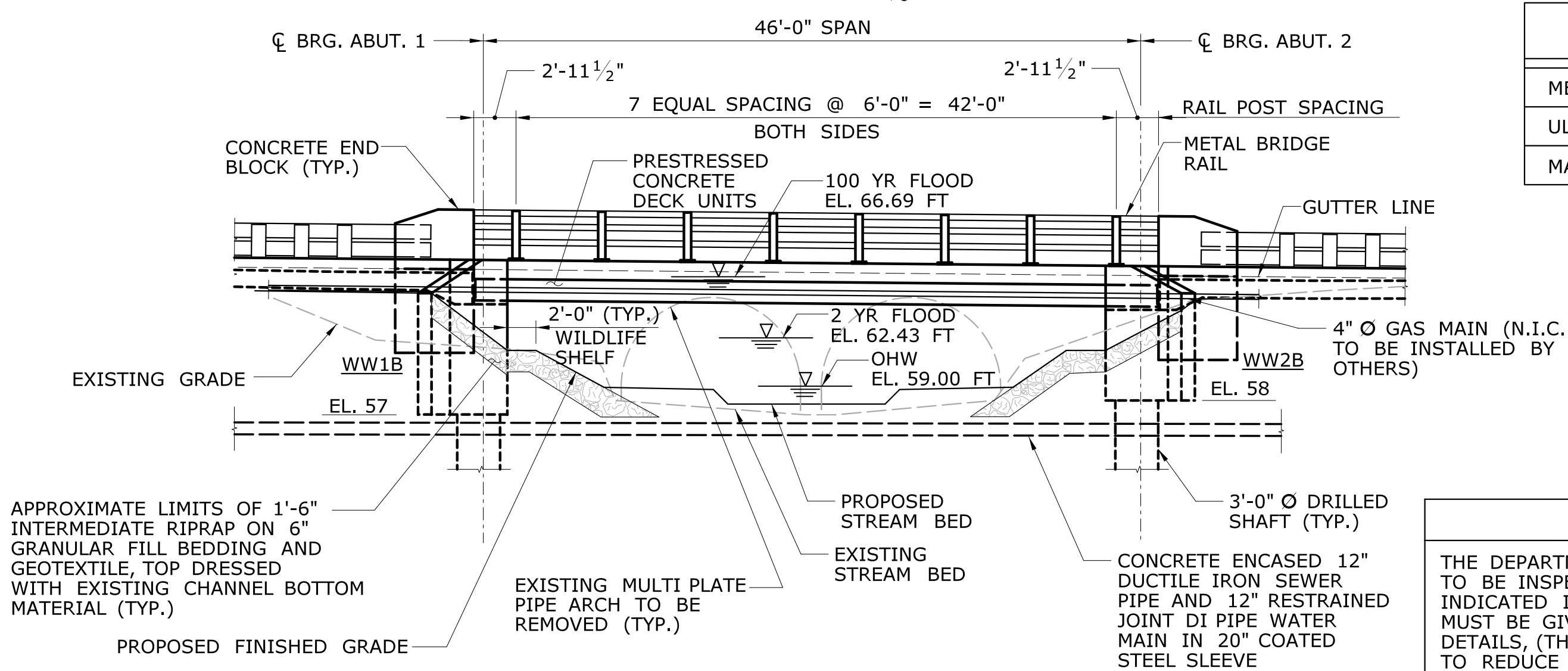
SOIL BORING LOCATION

NOTE:

ELEVATIONS SHOWN ARE FINISHED STREAM BED ELEVATIONS.

PLAN

SCALE: 1/8" = 1'-0"



ELEVATION

SCALE: 1/8" = 1'-0"

NOTE

RAILING PICKETS ARE NOT SHOWN FOR CLARITY.

INSPECTION OF FIELD WELDS

METHOD	UNIT	QUANTITY
ULTRASONIC	IN	0
MAGNETIC PARTICLE	IN	0

CONCRETE DISTRIBUTION

SUPERSTRUCTURE	C.Y.	110
SUBSTRUCTURE	C.Y.	127
FOOTINGS	C.Y.	0
TOTAL	C.Y.	237

NOTICE TO BRIDGE INSPECTORS

THE DEPARTMENT'S BRIDGE SAFETY PROCEDURES REQUIRE THIS BRIDGE TO BE INSPECTED FOR, BUT NOT LIMITED TO, ALL APPROPRIATE COMPONENTS INDICATED IN THE GOVERNING MANUAL FOR BRIDGE INSPECTION, ATTENTION MUST BE GIVEN TO INSPECTING THE FOLLOWING SPECIAL COMPONENTS AND DETAILS, (THE LISTING FOR SPECIFIC ATTENTION SHALL NOT BE CONSTRUED TO REDUCE THE IMPORTANCE OF INSPECTION OF ANY OTHER COMPONENT OF THE STRUCTURE). THE FREQUENCY OF INSPECTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION, UNLESS OTHERWISE DIRECTED BY THE MANAGER OF SAFETY AND EVALUATION.

COMPONENT OR DETAIL	STRUCTURE SHEET REFERENCE
FOLLOW NORMAL INSPECTION PROCEDURES	

GENERAL NOTES:

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 817 (2016).

DESIGN SPECIFICATION: AASHTO LRFD DESIGN SPECIFICATIONS, 7TH EDITION, WITH THE INTERIM SPECIFICATIONS UP TO AND INCLUDING (2015), AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003), WITH THE LATEST REVISIONS.

ALLOWABLE DESIGN STRESSES:

CLASS "50" CONCRETE BASED ON $f_c=5,000$ psi
CLASS "F" CONCRETE BASED ON $f_c=4,000$ psi
CONCRETE FOR ADJACENT PRECAST CONCRETE DECK UNITS BASED ON $f_c=6,500$ psi
REINFORCEMENT (ASTM A615, GRADE 60), $F_y=60,000$ psi

THE SPECIFIED CONCRETE STRENGTH USED IN DESIGN, f_c , OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF "SECTION 6.01 CONCRETE FOR STRUCTURES."

LIVE LOAD: HL-93.

FUTURE PAVING ALLOWANCE: NONE.

BITUMINOUS CONCRETE OVERLAY: THIS SHALL CONSIST OF TWO LIFTS: THE FIRST SHALL BE "BITUMINOUS CONCRETE - CLASS 2" (1" THICK) AND THE SECOND LIFT SHALL BE "BITUMINOUS CONCRETE - CLASS 1" (2" THICK).

FOUNDATION PRESSURES: THE LIMIT STATES NOTED ON THE SUBSTRUCTURE PLAN SHEETS REFER TO LOAD COMBINATIONS AS GIVEN IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

DIMENSIONS: WHEN DECIMAL DIMENSIONS ARE GIVEN LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

DRILLED SHAFTS: SUPPORT OF DRILLED SHAFT EXCAVATION USING THE SLURRY METHOD WILL NOT BE ALLOWED.

EXISTING BRIDGE: THE WORK FOR REMOVAL OF THE EXISTING MULTI PLATE PIPE ARCHES SHALL BE INCLUDED AND PAID FOR UNDER THE ITEM "REMOVAL OF EXISTING BRIDGE".

CONCRETE NOTES:

CLASS "50" CONCRETE: CLASS "50" CONCRETE SHALL BE USED FOR PRECAST PORTION OF ABUTMENTS AND WINGWALLS.

CLASS "F" CONCRETE: CLASS "F" CONCRETE SHALL BE USED FOR CAST-IN-PLACE CURTAIN WALLS, TOPS OF WINGWALLS, CONCRETE SLAB, SIDEWALKS, CURBS AND APPROACH SLABS.

CONCRETE FOR DRILLED SHAFTS: CONCRETE FOR DRILLED SHAFTS SHALL BE MODIFIED CLASS "F" CONCRETE. SEE SPECIFICATION FOR ITEM "DRILLED SHAFT (3.0 FT)".

JOINT SEAL: SEE SPECIAL PROVISIONS.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" X 1" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE 2" COVER UNLESS DIMENSIONED OTHERWISE.

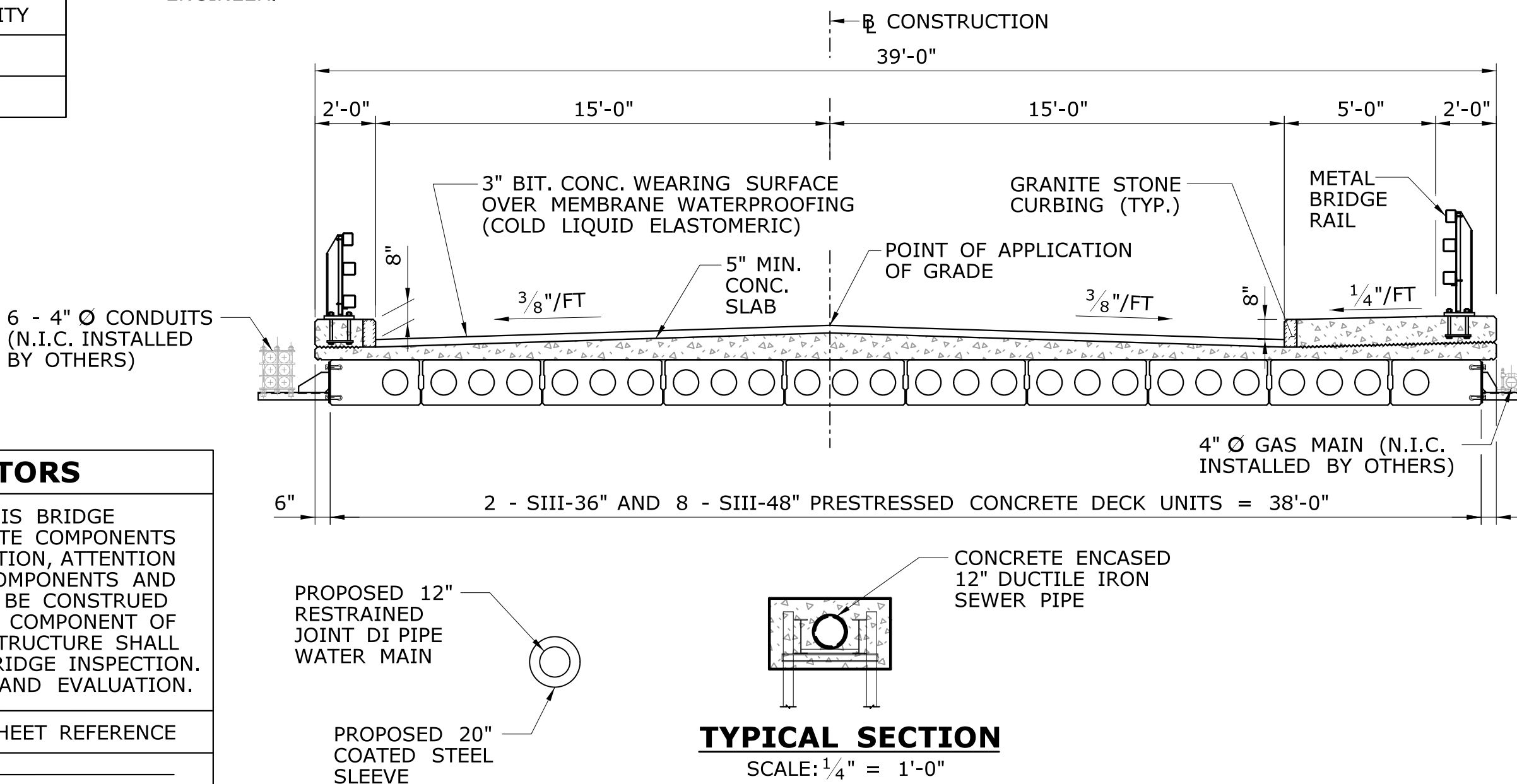
REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE.

EPOXY COATED REINFORCING BARS: ALL REINFORCEMENT, EXCEPT THE STRANDS IN THE ADJACENT PRECAST CONCRETE DECK UNITS SHALL BE EPOXY COATED AND INCLUDED IN THE PAY ITEM "PRECAST CONCRETE DECK UNIT (4'-0"x1'-6") OR ITEM "PRECAST CONCRETE DECK UNIT (3'-0"x1'-6")". ALL REINFORCEMENT IN THE SLAB, SIDEWALK, CURBS AND IN THE CONCRETE APPROACH SLABS SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED. THESE BARS SHALL BE INCLUDED IN THE PAY ITEM "DEFORMED STEEL BARS -EPOXY COATED".

PREFORMED EXPANSION JOINT FILLER: THE COST OF FURNISHING AND INSTALLING PREFORMED EXPANSION JOINT FILLER SHALL BE INCLUDED IN THE COST OF THE ITEM "1 INCH PREFORMED EXPANSION JOINT FILLER FOR BRIDGES".


CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

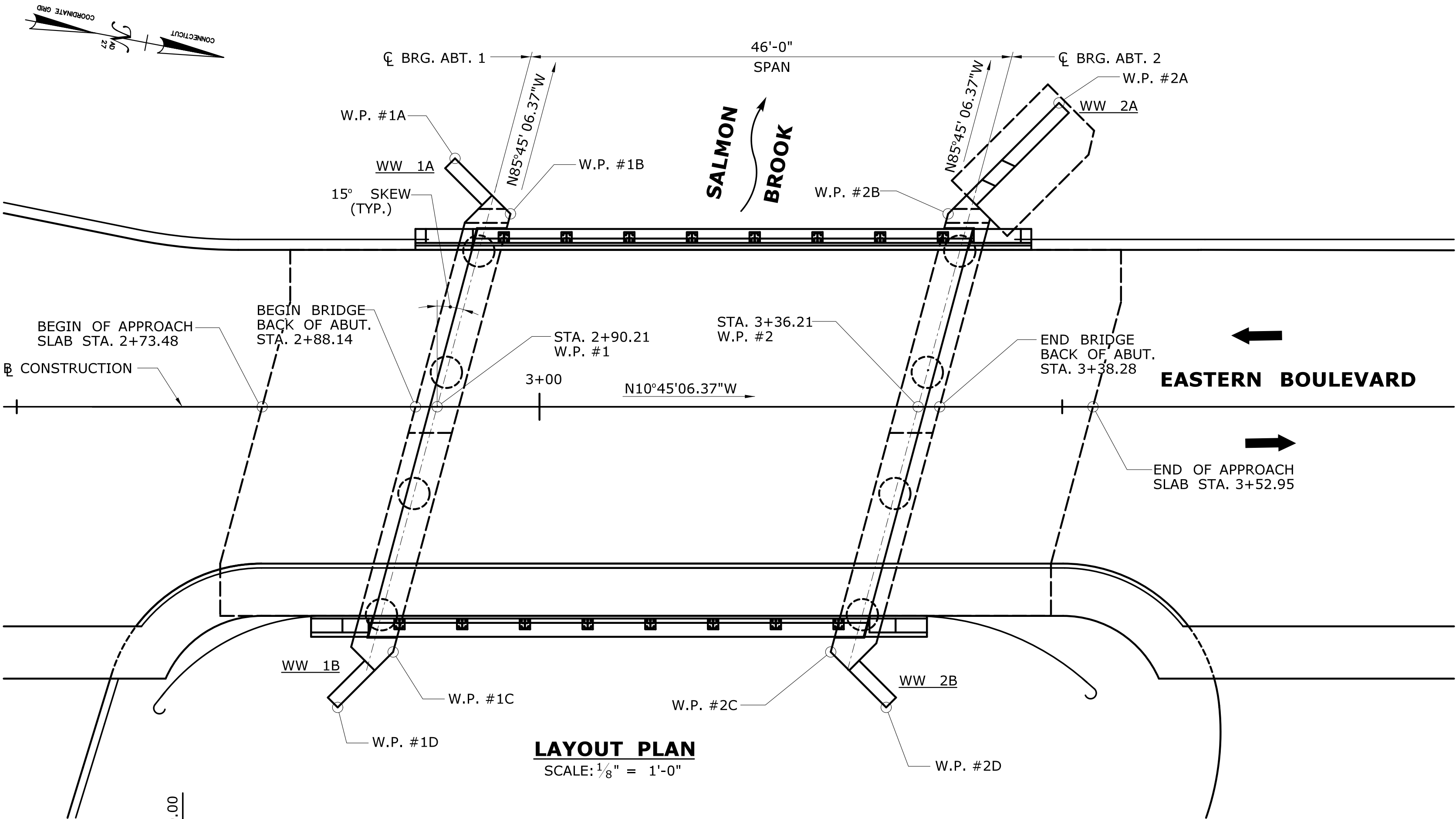
UTILITIES: THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS, UNLESS NOTED OTHERWISE. IF ANY UTILITY IS DAMAGED OR SERVICE IS INTERRUPTED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING FULL SERVICE IN A SAFE MANNER APPROVED BY THE UTILITY COMPANY AND ENGINEER.



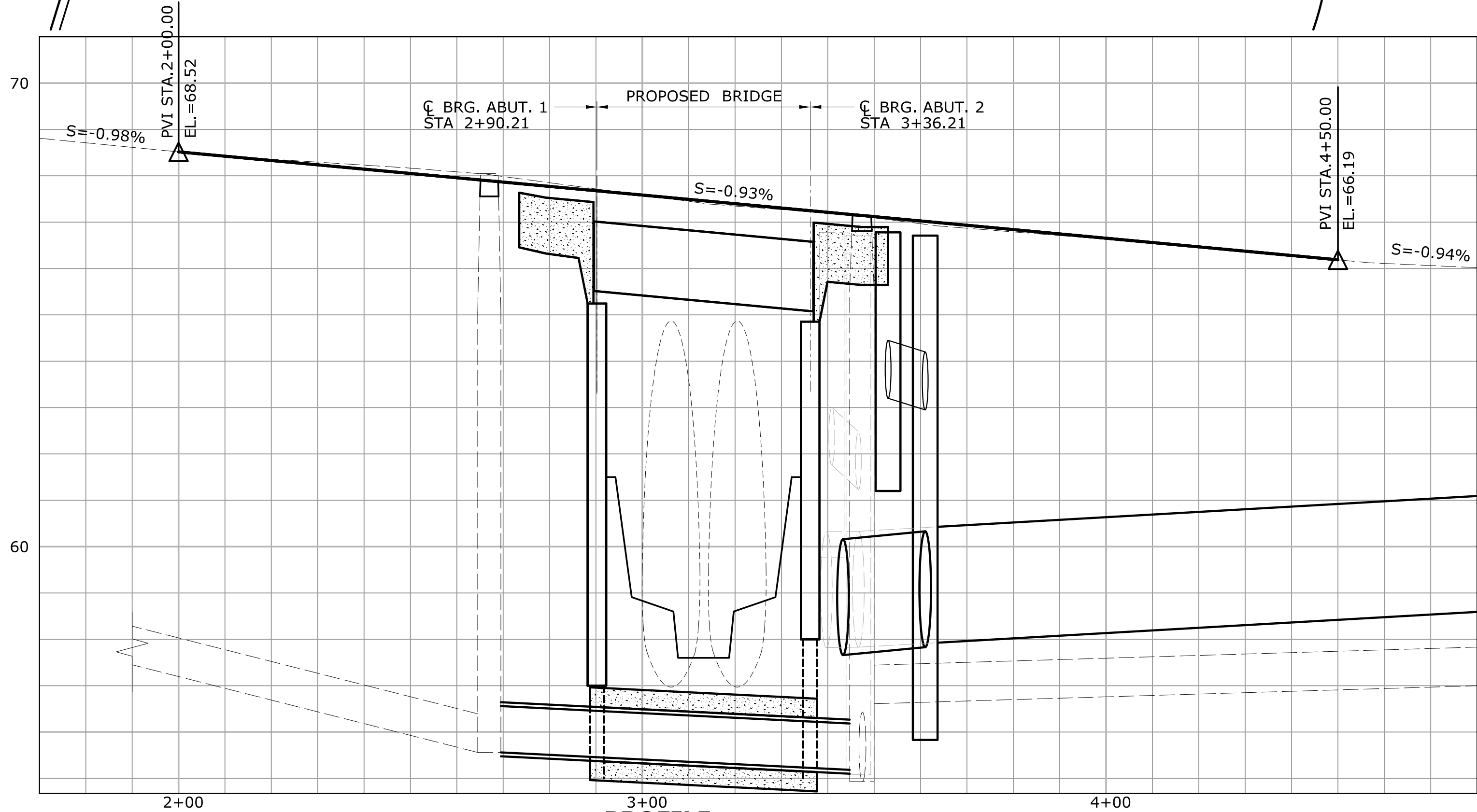
TYPICAL SECTION

SCALE: 1/4" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/26/2017	DESIGNER/DRAFTER: SD CHECKED BY: VLL SCALE AS NOTED	TOWN OF GLASTONBURY	SIGNATURE/ BLOCK: 	GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF BRIDGE NO.05608 EASTERN BOULEVARD OVER SALMON BROOK	TOWN: GLASTONBURY	PROJECT NO. 0053-0188 DRAWING NO. STR-01 SHEET NO. 19
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LAYOUT PLAN
SCALE: 1/8" = 1'-0"



PROFILE

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=2'

WORKING POINT COORDINATES

W.P.#	NORTH	EAST
1	821873.982	1045029.978
1A	821871.214	1045006.325
1B	821877.417	1045010.542
1C	821874.234	1045053.801
1D	821870.018	1045060.003
2	821919.168	1045021.364
2A	821926.968	1044990.299
2B	821918.535	1045002.704
2C	821915.353	1045045.963
2D	821921.555	1045050.179

PRECAST CONCRETE SUBSTRUCTURE
UNIT SHIPPING DATA

MAX SHIPPING LENGTH	MAX SHIPPING HEIGHT	MAX SHIPPING WIDTH	MAX SHIPPING WEIGHT
28'-2"	7'-7"	7'-2"	120000 LB

PRECAST CONCRETE DECK UNIT
SHIPPING DATA

MAX SHIPPING LENGTH	MAX SHIPPING HEIGHT	MAX SHIPPING WIDTH	MAX SHIPPING WEIGHT
47'-6"	1'-6"	4'-0"	34000 LB

HYDRAULIC DATA


DRAINAGE AREA	7.20 SQ. MI.
DESIGN FREQUENCY	100 YEAR
DESIGN DISCHARGE	1850 CFS
AVERAGE DAILY FLOW ELEVATION	58.5 FT.
UPSTREAM DESIGN WATER SURFACE ELEVATION	66.69 FT.
DOWNSTREAM DESIGN WATER SURFACE ELEVATION	65.73 FT.
MAXIMUM SCOUR ELEVATION	41.36 FT.
FREQUENCY	500 YEAR
DISCHARGE	2940 CFS
WORST CASE SCOUR SUBSTRUCTURE UNIT	NORTH ABUTMENT

BRIDGE QUANTITIES

ITEM	UNIT	TOTAL
EXCAVATION AND REUSE OF EXISTING CHANNEL BOTTOM MATERIAL	C.Y.	150
STRUCTURE EXCAVATION - EARTH (COMPLETE)	C.Y.	340
HANDLING WATER	L.S.	L.S.
GRANULAR FILL	C.Y.	15
PERVIOUS STRUCTURE BACKFILL	C.Y.	250
BITUMINOUS CONCRETE, CLASS 1	T	35
BITUMINOUS CONCRETE, CLASS 2	T	20
REMOVAL OF EXISTING BRIDGE	L.S.	L.S.
PRESTRESSED DECK UNITS (3'-0" X 1'-6")	L.F.	95
PRESTRESSED DECK UNITS (4'-0" X 1'-6")	L.F.	379
ASPHALTIC PLUG EXPANSION JOINT SYSTEM	C.F.	27
STEEL-LAMINATED ELASTOMERIC BEARINGS	C.I.	13230
SIMULATED STONE MASONRY	S.Y.	5
CLASS "F" CONCRETE	C.Y.	150
PRECAST SUBSTRUCTURE ELEMENTS	C.Y.	106
1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	S.F.	365
DEFORMED STEEL BARS	LB.	4750
DEFORMED STEEL BARS - EPOXY COATED	LB.	16700
STRUCTURAL STEEL SUPPORTS FOR UTILITIES ON BRIDGE	CWT.	8
OBSTRUCTIONS	HR	16
FURNISHING DRILLED SHAFT DRILLING EQUIPMENT	L.S.	L.S.
DRILLED SHAFT ROCK EXCAVATION (2.5 FT)	L.F.	32
DRILLED SHAFT (3.0 FT)	L.F.	136
DRILLED SHAFT EARTH EXCAVATION (3.0 FT)	L.F.	136
INTERMEDIATE RIPRAP	C.Y.	55
MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC)	S.Y.	305
DAMPPROOFING	S.Y.	120
GEOTEXTILE	S.Y.	105
5" x 8" GRANITE STONE CURBING FOR BRIDGES	L.F.	145
METAL BRIDGE RAIL	L.F.	99

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/26/2017	DESIGNER/DRAFTER: SD CHECKED BY: VLL SCALE AS NOTED	TOWN OF GLASTONBURY	Signature/Block:  GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF BRIDGE NO.05608 EASTERN BOULEVARD OVER SALMON BROOK	TOWN: GLASTONBURY DRAWING TITLE: LAYOUT PLAN	PROJECT NO. 0053-0188 DRAWING NO. STR-02 SHEET NO. 20
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Driller:		Connecticut DOT Boring Report				Hole No.: S-1		
Inspector: Jordan Herpich		Town: Glastonbury, CT				Stat./Offset: 3+48.302/7.917 RT		
Engineer: Nathan L. Whetten		Project No.: 0053-0188				Northing: 821932.5267		
Start Date: 2-18-15		Route No.:				Easting: 1045026.878		
Finish Date: 2-18-15		Bridge No.: Eastern Blvd. Bridge				Surface Elevation: 66.8		
Project Description: Eastern Blvd. Bridge Over Salmon Brook								
Casing Size/Type: 4" Casing				Sampler Type/Size: 1-3/8 inch ID			Core Barrel Type: NV2	
Hammer Wt.: 300lb Fall: 30in.				Hammer Wt.: 140lb Fall: 30in.				
Groundwater Observations: @10								
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %			
30	C-2		60	60	83	BEDROCK (cont)	Red-brown, hard, fresh, fine to coarse grained, Portland ARKOSE, slightly to moderately fractured, moderately to very close, shallow angle joints - Core time per foot: 7, 6, 6, 5, 7	35
35						END OF BORING 36ft		30
40								25
45								20
50								15
55								10
60								
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%								
Total Penetration in Earth: 26ft Rock: 10ft			NOTES: Hollow-stem augers used to 10 feet then switched to flush joint casing.					Sheet 2 of 2
No. of Soil Samples: 8 No. of Core Runs: 2		SM-001-M REV. 1/03						

						THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: SD CHECKED BY: VLL SCALE AS NOTED		TOWN OF GLASTONBURY		SIGNATURE/ BLOCK: 		GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033		PROJECT TITLE: REPLACEMENT OF BRIDGE NO.05608 EASTERN BOULEVARD OVER SALMON BROOK		TOWN: GLASTONBURY		PROJECT NO. 0053-0188	
																		DRAWING NO. STR-03			
																		SHEET NO. 21			
REV.	DATE	REVISION DESCRIPTION				SHEET NO.	Plotted Date: 1/26/2017														

Driller:		Connecticut DOT Boring Report				Hole No.: S-2		
Inspector: Jordan Herpich		Town: Glastonbury, CT		Stat./Offset: 2+76.46/9.377 RT				
Engineer: Nathan L. Whetten		Project No.: 0053-0188		Northing: 821862.2287				
Start Date: 2-19-15		Route No.:		Easting: 1045041.7635				
Finish Date: 2-19-15		Bridge No.: Eastern Blvd. Bridge		Surface Elevation: 67.5				
Project Description: Eastern Blvd. Bridge Over Salmon Brook								
Casing Size/Type: 4" Casing		Sampler Type/Size: 1-3/8 inch ID			Core Barrel Type: NV2			
Hammer Wt.: 300lb Fall: 30in.		Hammer Wt.: 140lb Fall: 30in.						
Groundwater Observations: @9								
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %			
30	C-1		60	59	67	BEDROCK (cont)	Red-brown, hard, very slight weathering, fine to coarse grained, Portland ARKOSE, slightly to moderately fractured, moderately to very close, shallow joints - Core time per foot: 5, 6, 6, 5, 7	35
35								
40	C-2		60	60	64		Red-brown, hard, very slightly weathered, fine to medium grained, Portland ARKOSE, slightly to moderately fractured, moderately to very close, shallow joints - Core time per foot: 6, 5, 7, 7, 8	30
45						END OF BORING 40ft		25
50								20
55								15
60								10
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%								
Total Penetration in Earth: 30ft Rock: 10ft			NOTES: Hollow-stem augers used to 10 feet then switched to flush joint casing.					Sheet 2 of 2
No. of Soil Samples: 8 No. of Core Runs: 2								SM-001-M REV. 1/02

Driller:		Connecticut DOT Boring Report				Hole No.: S-3			
Inspector: Jordan Herpich		Town: Glastonbury, CT		Stat./Offset: 2+88.451/4.767 LT					
Engineer: Nathan L. Whetten		Project No.: 0053-0188		Northing: 821871.36					
Start Date: 2-23-15		Route No.:		Easting: 1045025.6248					
Finish Date: 2-23-15		Bridge No.: Eastern Blvd. Bridge		Surface Elevation: 67.5					
Project Description: Eastern Blvd. Bridge Over Salmon Brook									
Casing Size/Type: 4" Casing		Sampler Type/Size: 1-3/8 inch ID			Core Barrel Type: NV2				
Hammer Wt.: 300lb Fall: 30in.		Hammer Wt.: 140lb Fall: 30in.							
Groundwater Observations: @11									
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)	
	Sample Type/No.	Blows on Sampler per 6 inches			Pen. (in.)				Rec. (in.)
0							PAVEMENT FILL	6" Pavement - Ground Frozen	
								Auger to 3 feet. Red/brown c-f SAND, some c-f gravel, little silt	65
	S-1	25	19	12	7	24	7	Red-brown c-f SAND, little m-f gravel, little silt	
5								Red-brown c-f SAND, little m-f gravel, little silt	
	S-2	5	5	5	6	24	7	Red-brown c-f SAND, little m-f gravel, little silt	
								Red-brown c-f SAND, little m-f gravel, little silt	
	S-3	11	11	10	10	24	7	Brown c-f SAND, little m-f gravel, some silt	60
								Brown c-f SAND, some silt, little m-f gravel	
10	S-4	6	7	7	9	24	7	Brown m-f SAND, some silt, little m-f gravel	
								Brown m-f SAND, some silt, little m-f gravel	55
	S-5	8	6	7	6	24	6	No Recovery	
								Red-brown c-f SAND, some m-f gravel, little silt	50
15		12	10	9	6	24	0	Brown c-f SAND, some m-f gravel, some silt, trace clay	
								Red-brown c-f SAND, some m-f gravel, some silt, trace clay	45
	S-6	6	10	5	7	24	5	Brown c-f SAND, some m-f gravel, some silt, trace clay	
20								Red-brown, hard, very slightly weathered, fine	40
	S-7	27	24	24	18	24	8		
25	S-8	100/4"				4	4		
30									
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%									
Total Penetration in Earth: 28ft Rock: 10ft		NOTES: Hollow-stem augers used to 10 feet then switched to flush joint casing.						Sheet 1 of 2	
No. of Soil Samples: 8 No. of Core Runs: 2								SM-001-M REV. 1/02	

Driller:		Connecticut DOT Boring Report				Hole No.: S-3			
Inspector: Jordan Herpich		Town: Glastonbury, CT		Stat./Offset: 2+88.451/4.767 LT					
Engineer: Nathan L. Whetten		Project No.: 0053-0188		Northing: 821871.36					
Start Date: 2-23-15		Route No.:		Easting: 1045025.6248					
Finish Date: 2-23-15		Bridge No.: Eastern Blvd. Bridge		Surface Elevation: 67.5					
Project Description: Eastern Blvd. Bridge Over Salmon Brook									
Casing Size/Type: 4" Casing		Sampler Type/Size: 1-3/8 inch ID			Core Barrel Type: NV2				
Hammer Wt.: 300lb Fall: 30in.		Hammer Wt.: 140lb Fall: 30in.							
Groundwater Observations: @11									
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)	
	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %				
30	C-1		60	57	65	BEDROCK (cont)	grained, Portland ARKOSE, sound to moderately fractured, moderately close to close, shallow joints - Core time per foot: 4, 3, 4, 5, 4	35	
35	C-2		60	60	80		Red-brown, hard, very slightly weathered, Portland ARKOSE, sound to moderately fractured, moderately close to close, shallow joints - Core time per foot: 4, 5, 6, 5, 5	30	
40							END OF BORING 38ft	25	
45								20	
50								15	
55								10	
60									
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%									
Total Penetration in Earth: 28ft Rock: 10ft			NOTES: Hollow-stem augers used to 10 feet then switched to flush joint casing.					Sheet 2 of 2	
No. of Soil Samples: 8 No. of Core Runs: 2								SM-001-M REV. 1/02	

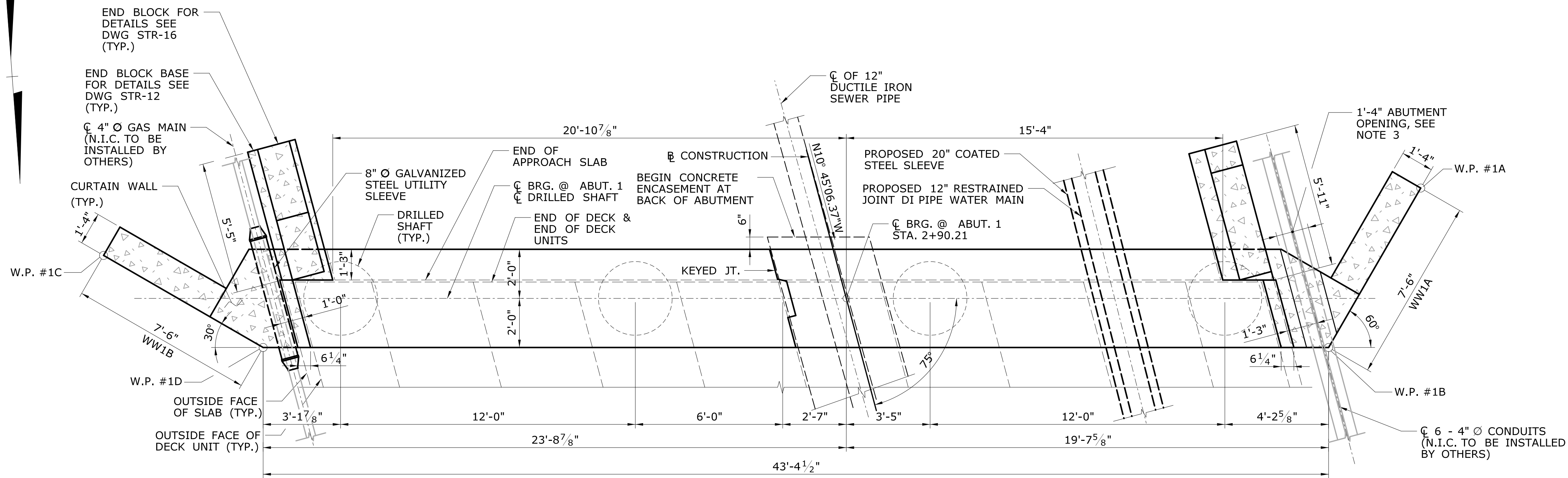
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Driller:		Connecticut DOT Boring Report					Hole No.: S-4		
Inspector: Jordan Herpich		Town: Glastonbury, CT		Stat./Offset: 3+56.477/5.576 LT					
Engineer: Nathan L. Whetten		Project No.: 0053-0188		Northing: 821938.0309					
Start Date: 2-26-15		Route No.:		Easting: 1045012.0922					
Finish Date: 2-26-15		Bridge No.: Eastern Blvd. Bridge		Surface Elevation: 66.8					
Project Description: Eastern Blvd. Bridge Over Salmon Brook									
Casing Size/Type: 4" Casing				Sampler Type/Size: 1-3/8 inch ID			Core Barrel Type: NV2		
Hammer Wt.: 300lb Fall: 30in.				Hammer Wt.: 140lb Fall: 30in.					
Groundwater Observations: @10									
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)	
	Sample Type/No.	Blows on Sampler per 6 inches							Pen. (in.)
0							PAVEMENT FILL	6" Pavement - Ground Frozen	
								Red-brown f SAND and SILT, little m-f gravel	65
	S-1	29	18	20	23	24	9	Red-brown c-f SAND, little f gravel, trace silt	
5	S-2	16	7	6	5	24	8	Red-brown c- f SAND, some silt, trace f gravel	
	S-3	5	5	4	5	24	6	Top 3": Red-brown c-f SAND, some m-f gravel, little silt. Bottom 3": Brown c-f SAND, some m-f GRAVEL, some silt	60
10	S-4	3	2	3	7	24	6	Brown c-f SAND, some m-f gravel, little silt, trace clay	
	S-5	8	6	3	3	24	9	Brown c-f SAND, some silt, little m-f gravel. Wood fragments.	55
							SAND		
15	S-6	9	8	4	6	24	1	Brown c-f SAND, some f gravel, trace silt	50
20		28	16	15	17	24	0	No recovery	
	S-7	22	27	26	32	24	11	Brown c-f SAND, some c-f gravel, little silt	45
25	S-8	70/3"				3	3	GRAVEL	
								BEDROCK	
								Top of bedrock at 26 feet	
								Red-brown, moderately hard, very slightly weathered, fine grained, Portland ARKOSE, sound to slightly fractured, moderately close to close, shallow joints - Core time per foot: 5, 4, 5,	40
30	C-1					60	55	85	
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%									
Total Penetration in						NOTES: Hollow-stem augers used to 10 feet then switched to flush joint casing.			Sheet 1 of 2 SM-001-M REV. 1/02
Earth: 26ft		Rock: 10ft							
No. of Soil Samples: 8		No. of Core Runs: 2							

Driller:		Connecticut DOT Boring Report				Hole No.: S-4		
Inspector: Jordan Herpich		Town: Glastonbury, CT				Stat./Offset: 3+56.477/5.576 LT		
Engineer: Nathan L. Whetten		Project No.: 0053-0188				Northing: 821938.0309		
Start Date: 2-26-15		Route No.:				Easting: 1045012.0922		
Finish Date: 2-26-15		Bridge No.: Eastern Blvd. Bridge				Surface Elevation: 66.8		
Project Description: Eastern Blvd. Bridge Over Salmon Brook								
Casing Size/Type: 4" Casing				Sampler Type/Size: 1-3/8 inch ID		Core Barrel Type: NV2		
Hammer Wt.: 300lb Fall: 30in.				Hammer Wt.: 140lb Fall: 30in.				
Groundwater Observations: @10								
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %			
30						BEDROCK <i>(cont)</i>	6, 6	35
35	C-2		60	60	78		Red-brown, moderately hard, fine to coarse grained, Portland ARKOSE, slightly to moderately fractured, moderately close to close, shallow joints - Core time per foot: 4, 5, 6, 5, 5	30
40							END OF BORING 36ft	25
45								20
50								15
55								10
60								
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%								
Total Penetration in Earth: 26ft Rock: 10ft			NOTES: Hollow-stem augers used to 10 feet then switched to flush joint casing.					Sheet 2 of 2
No. of Soil Samples: 8			No. of Core Runs: 2					SM-001-M REV. 1/02

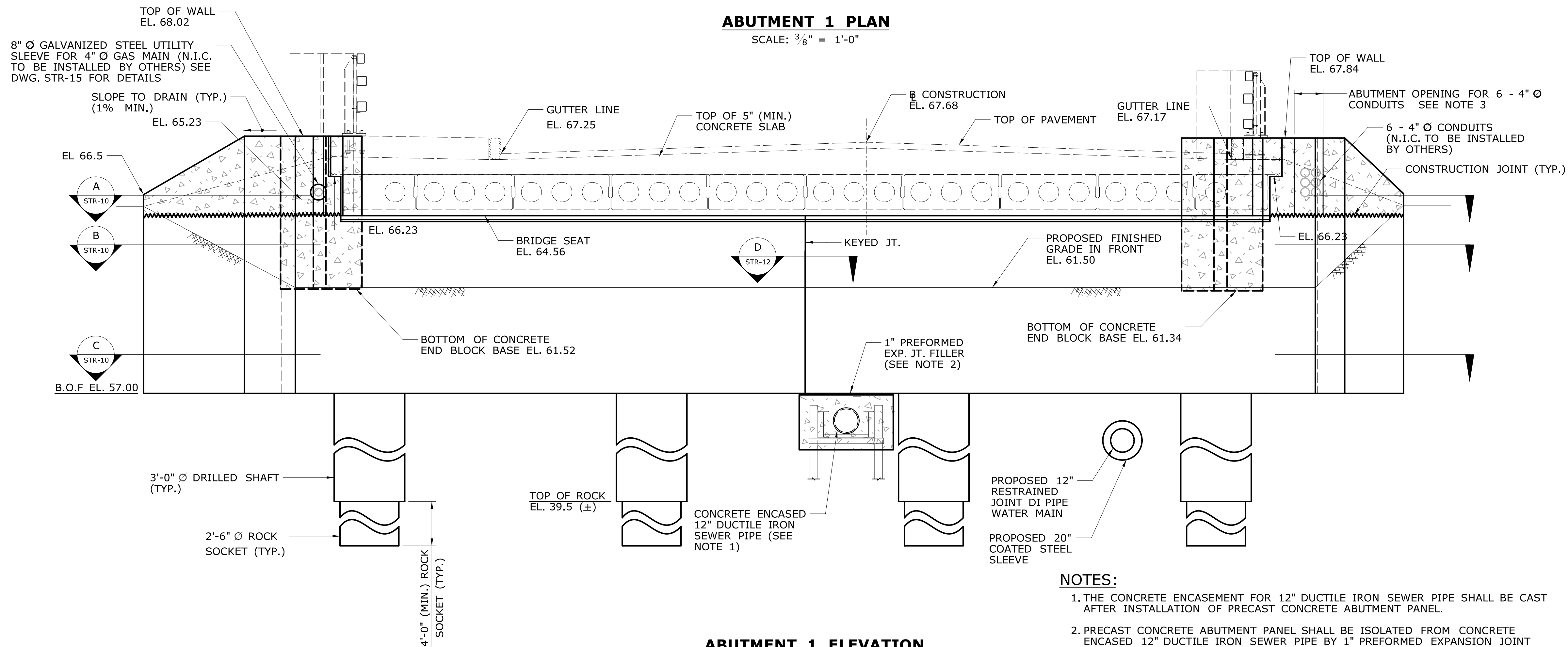
Driller:		Connecticut DOT Boring Report				Hole No.: S-5				
Inspector: Allison McCauliffe		Town: Glastonbury, CT		Stat./Offset: 2+56.028/12.828 LT						
Engineer: Nathan L. Whetten		Project No.: 0053-0188		Northing: 821838.0004						
Start Date: 2-27-15		Route No.:		Easting: 1045023.7773						
Finish Date: 2-27-15		Bridge No.: Eastern Blvd. Bridge		Surface Elevation: 67.5						
Project Description: Eastern Blvd. Bridge Over Salmon Brook										
Casing Size/Type: HSA 2.25		Sampler Type/Size: 1-3/8 inch ID			Core Barrel Type:					
Hammer Wt.: Fall: in.		Hammer Wt.: 140		Fall: 30in.						
Groundwater Observations: @10										
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)		
	Sample Type/No.	Blows on Sampler per 6 inches			Pen. (in.)				Rec. (in.)	RQD %
0						PAVEMENT FILL	7" Pavement Frozen ground to 3 feet - Sample taken from augers - Red-brown c-f SAND, little silt	65		
	S-1	18	45	36	43		24		10	Red-brown c-f SAND, little silt, trace f gravel
5	S-2	27	33	70	60		24		14	Top 8": Red-brown c-f SAND, little silt; Bottom 6": Red-brown c-f SAND, little m-f gravel, little silt
	S-3	36	34	20	18		24		3	Red-brown c-f SAND, little silt, trace f gravel
10	S-4	10	11	16	13		24		11	Red-brown f SAND, some silt
	S-5	10	10	11	7	24	20	Red-brown f SAND, some silt		
15	S-6	4	5	5	3	24	24	Red-brown f SAND, little silt		
20	S-7	4	6	13	51	24	12	Red-brown c-f SAND, some silt, trace f gravel		
25	S-8	15	19	22	30	24	24	Red-brown c-f SAND, little silt, trace m-f gravel		
30	S-9	62/0"				0	0	No Recovery - spoon bouncing - Top of Bedrock at 30 feet		
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%										
Total Penetration in		NOTES:						Sheet 1 of 2		
Earth: 30ft Rock: ft										
No. of Soil Samples: 10		No. of Core Runs: 0						SM-001-M REV. 1/02		

[illegible]



ABUTMENT 1 PLAN

SCALE: $\frac{3}{8}" = 1'-0"$



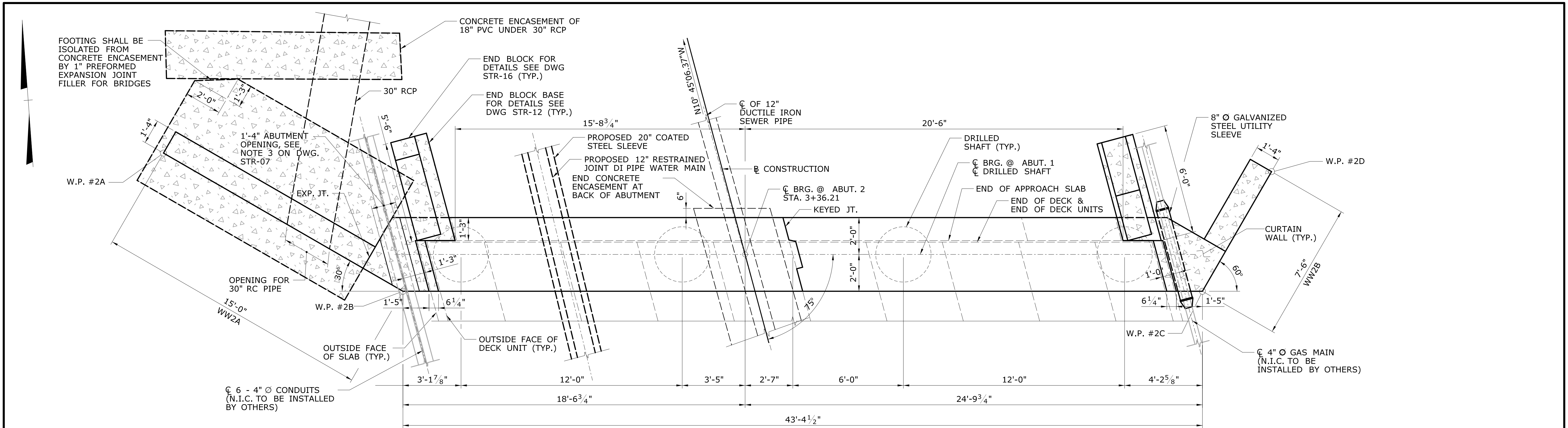
ABUTMENT 1 ELEVATION

SCALE: $\frac{3}{8}" = 1'-0"$

NOTES:

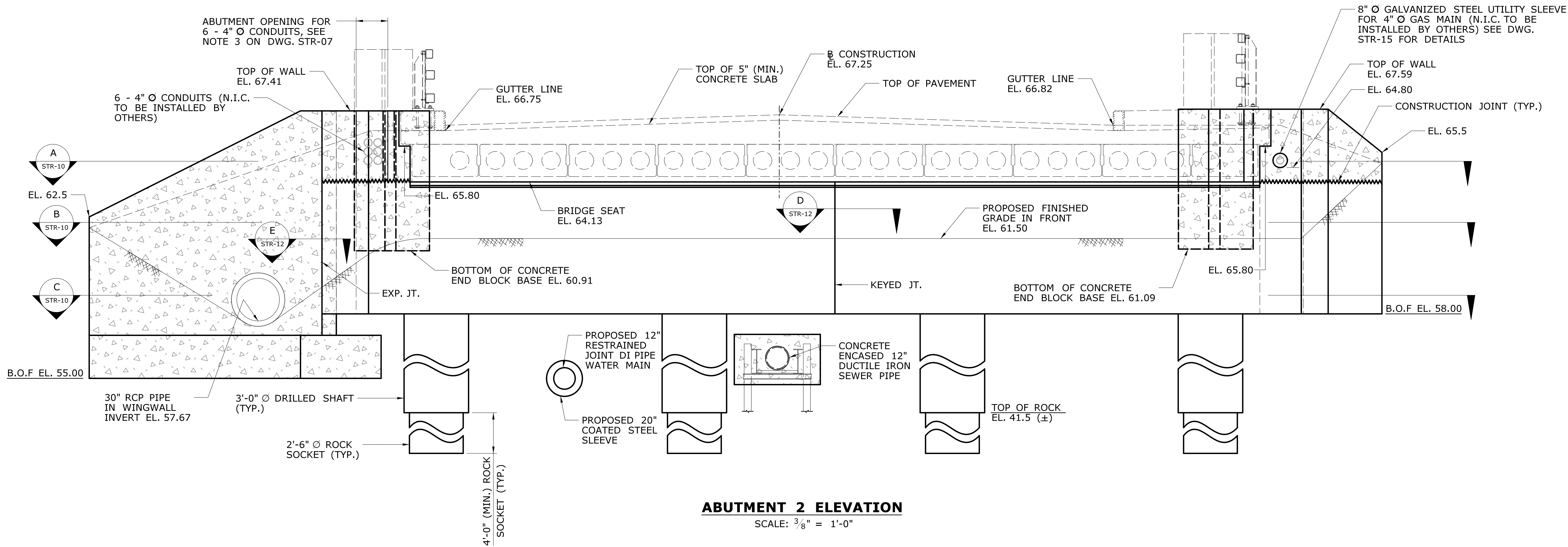
1. THE CONCRETE ENCASEMENT FOR 12" DUCTILE IRON SEWER PIPE SHALL BE CAST AFTER INSTALLATION OF PRECAST CONCRETE ABUTMENT PANEL.
2. PRECAST CONCRETE ABUTMENT PANEL SHALL BE ISOLATED FROM CONCRETE ENCASED 12" DUCTILE IRON SEWER PIPE BY 1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES.
3. ABUTMENT OPENING FOR 6 - 4" Ø CONDUITS TO BE FILLED WITH CLASS "F" CONCRETE AFTER INSTALLATION OF CONDUITS.

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ABUTMENT 2 PLAN

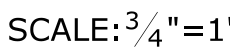
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ABUTMENT 2 ELEVATION

SCALE: $\frac{3}{8}$ " = 1'-0"

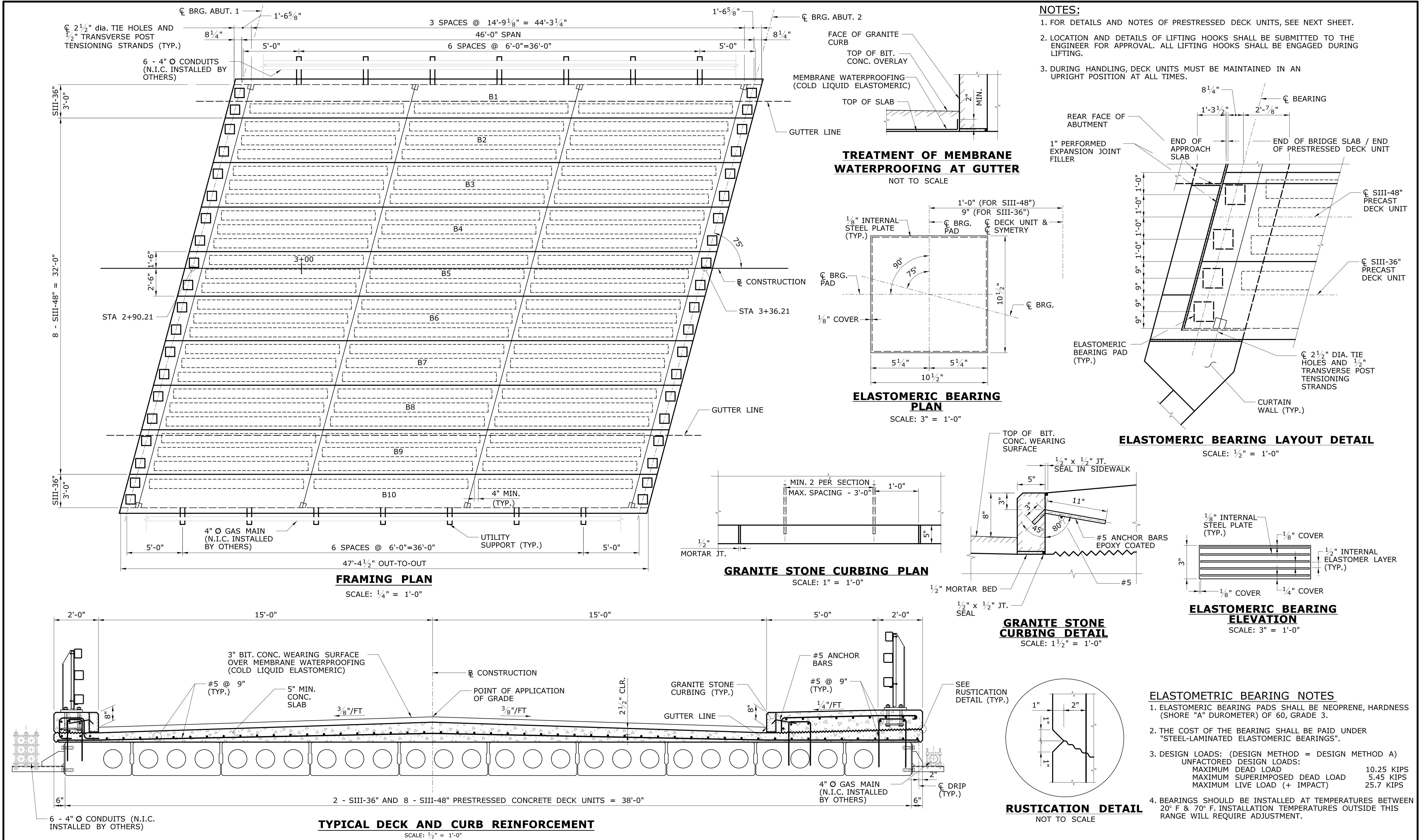
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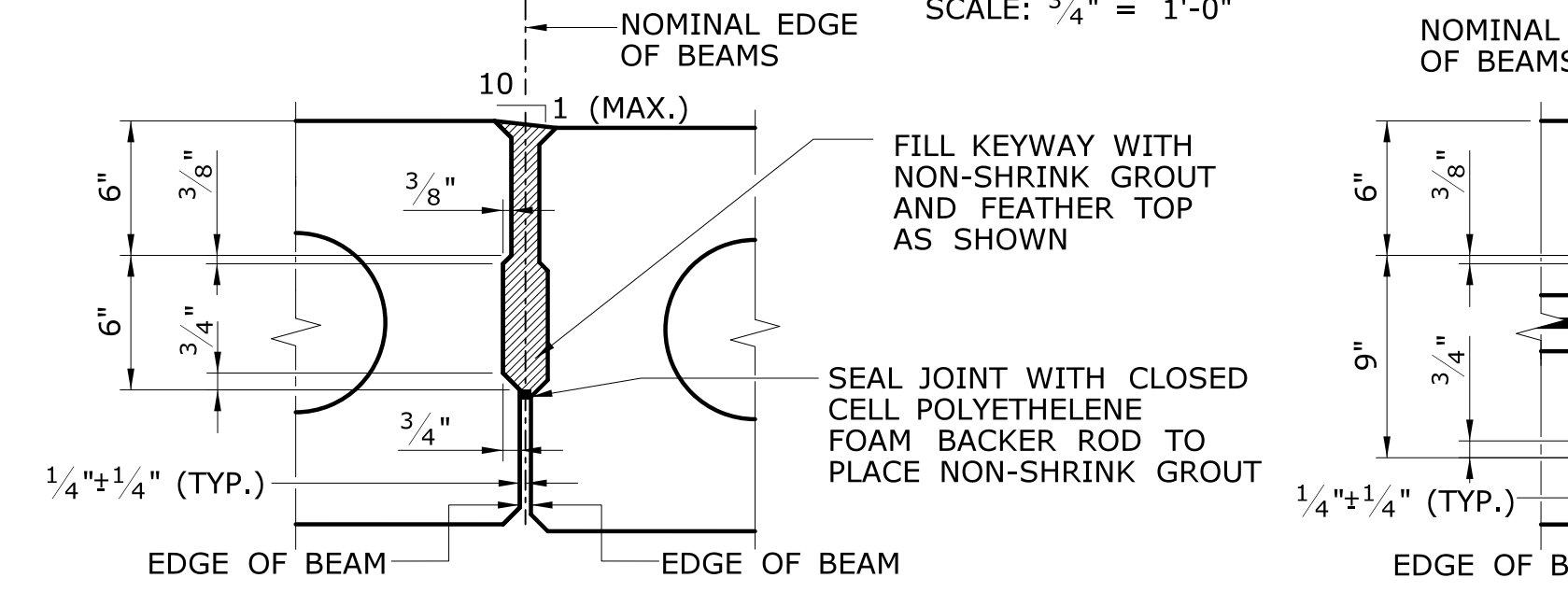
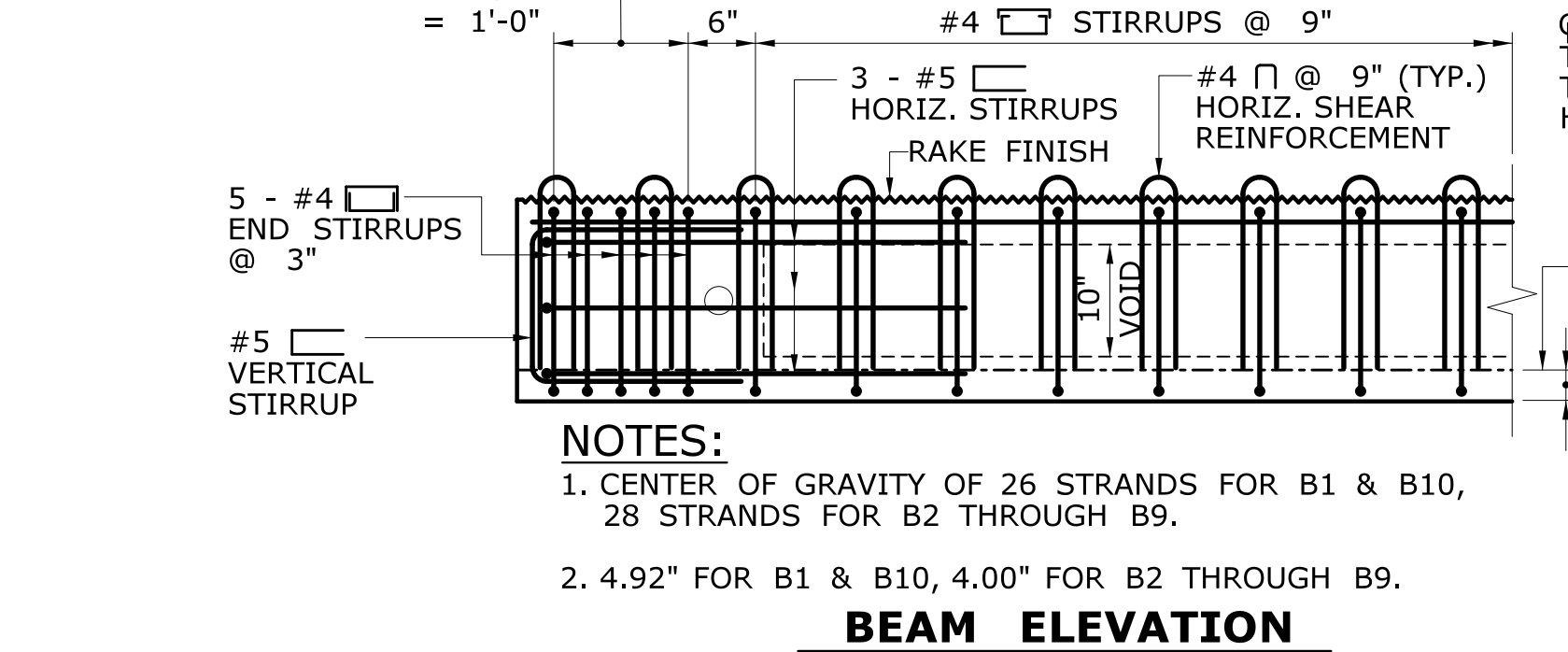
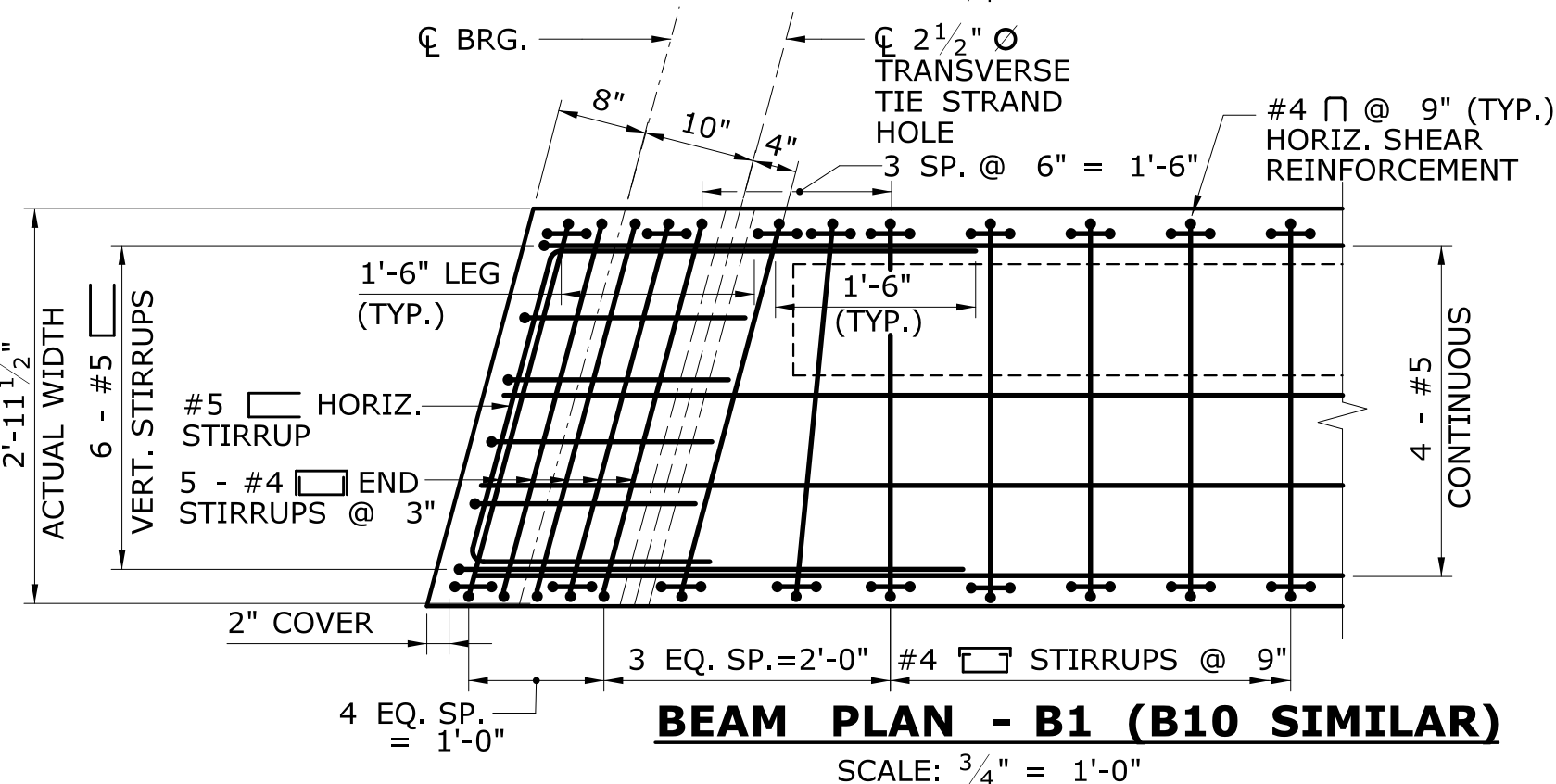
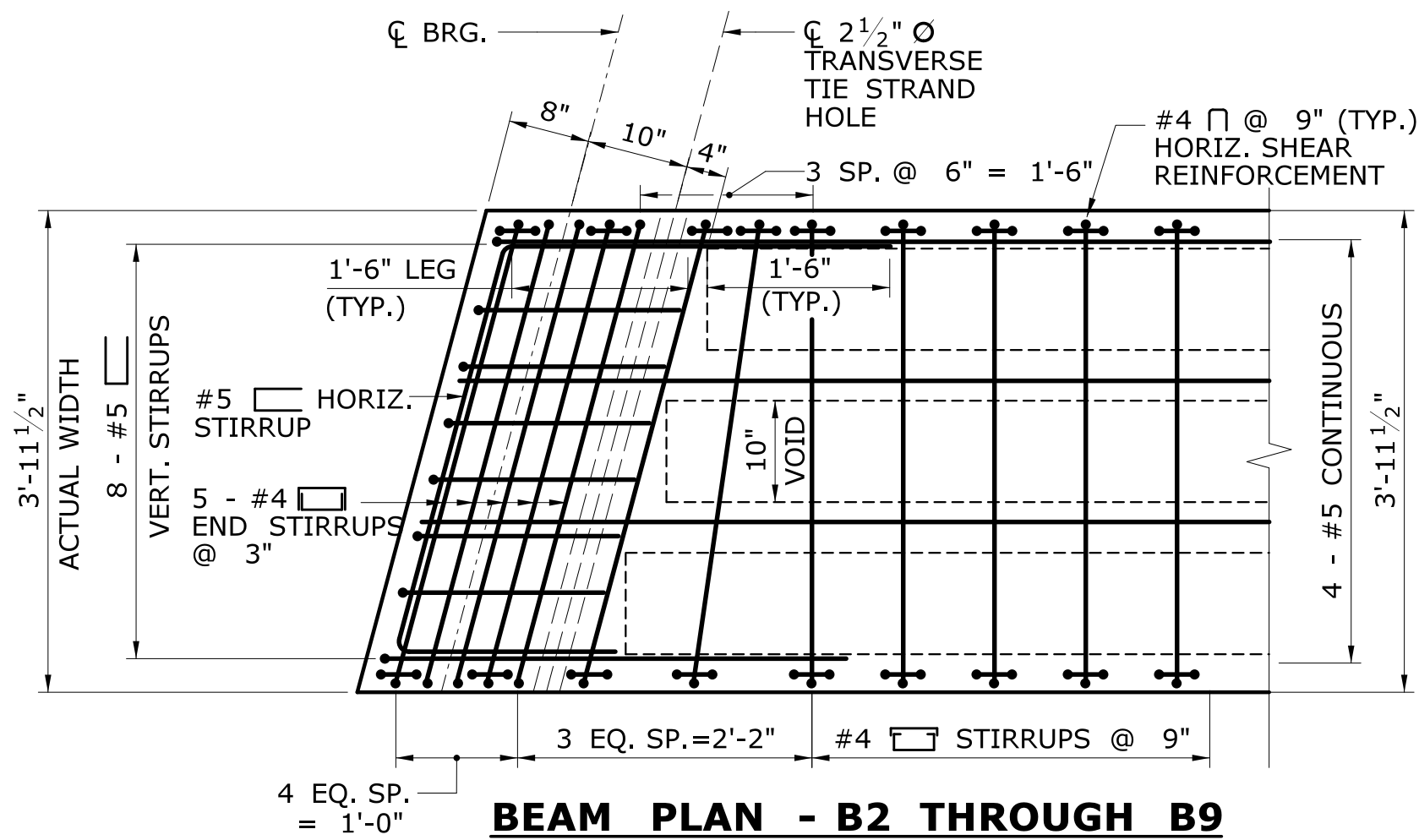
REPLACEMENT OF BRIDGE NO.05608 EASTERN BOULEVARD OVER SALMON BROOK

PROJECT NO. 0053-0188
DRAWING NO. STR-11
SHEET NO. 29

TOWN:	GLASTONBURY	PROJECT NO.	0053-0188
		DRAWING NO.	STR-12
DRAWING TITLE:	MISCELLANEOUS SUBSTRUCTURE DETAILS	SHEET NO.	30

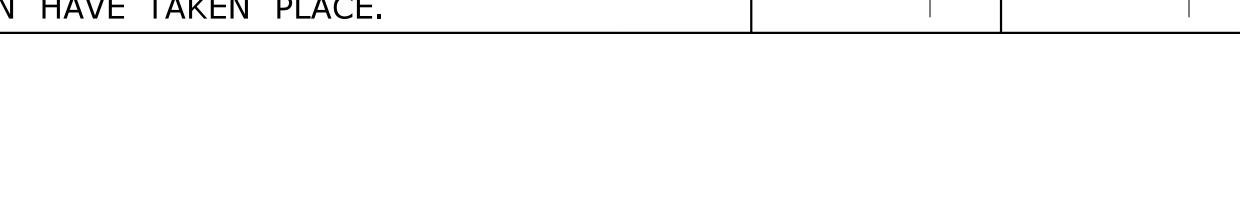
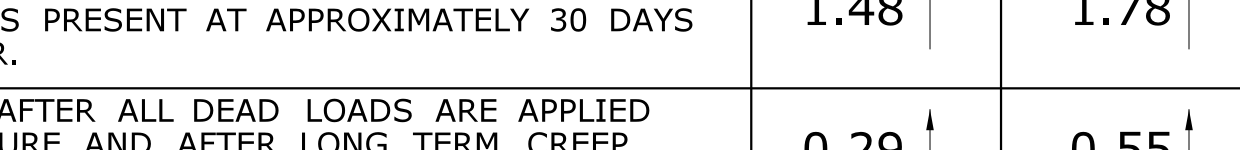
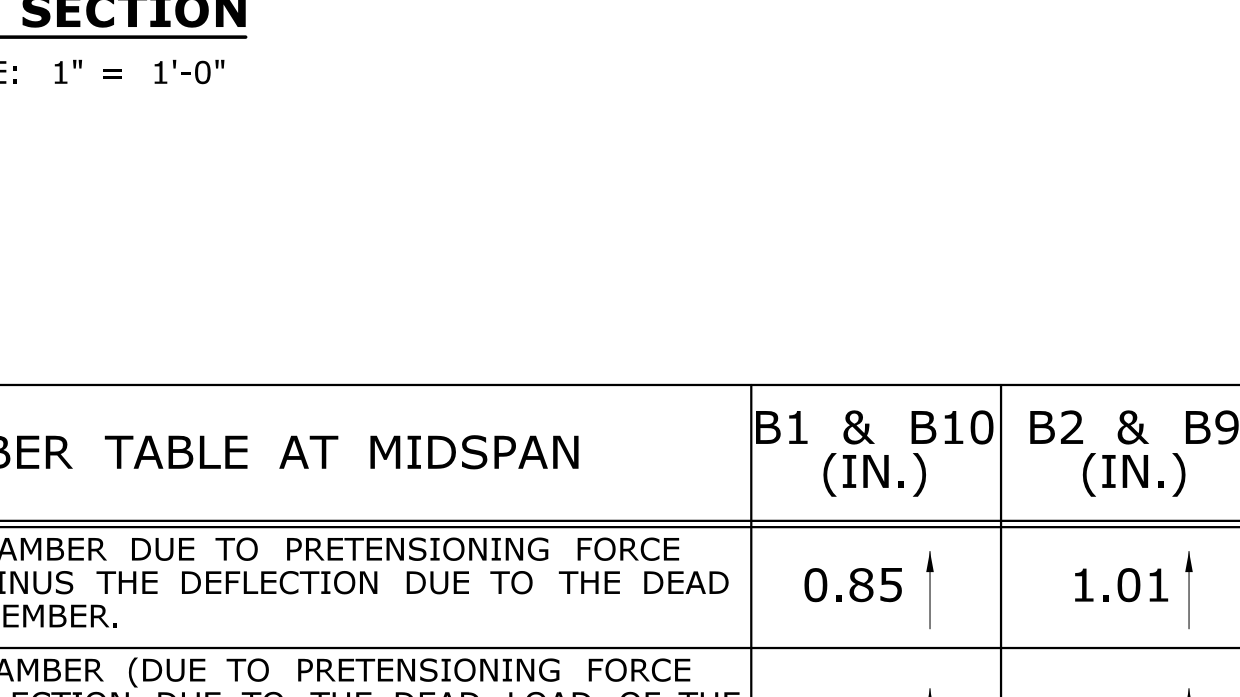
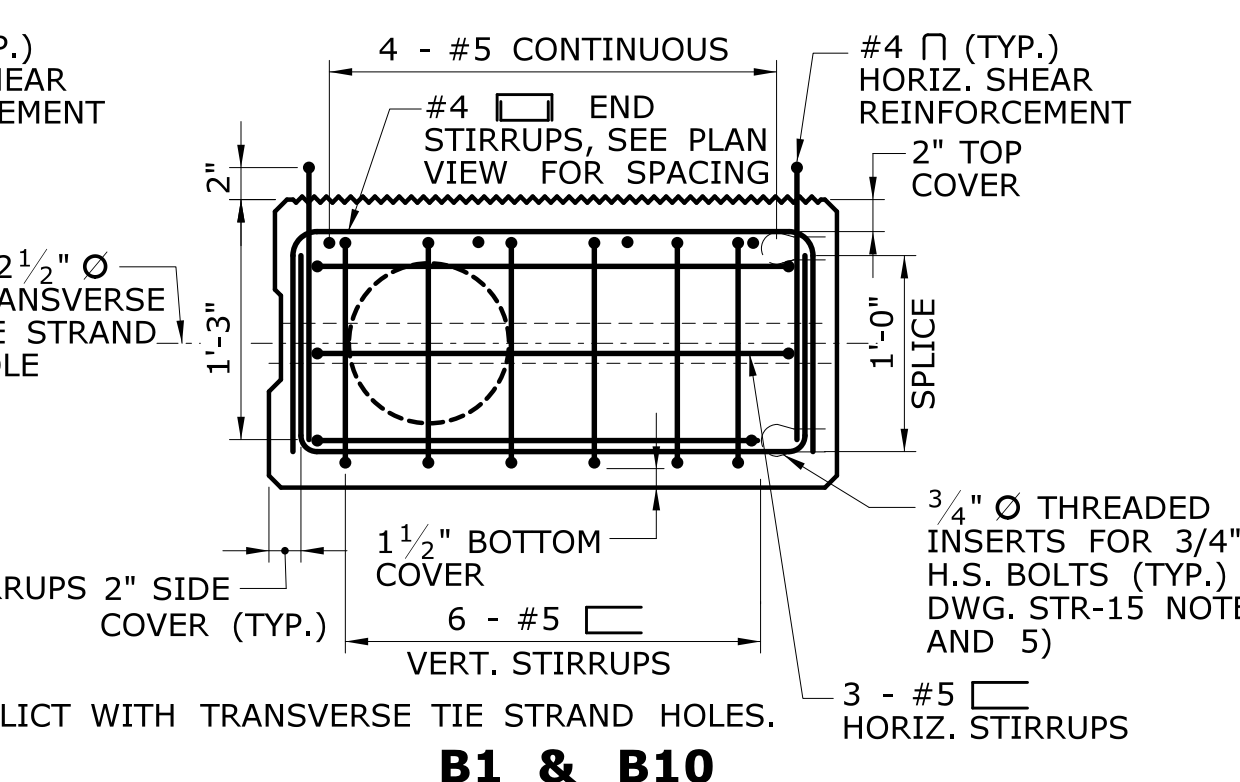
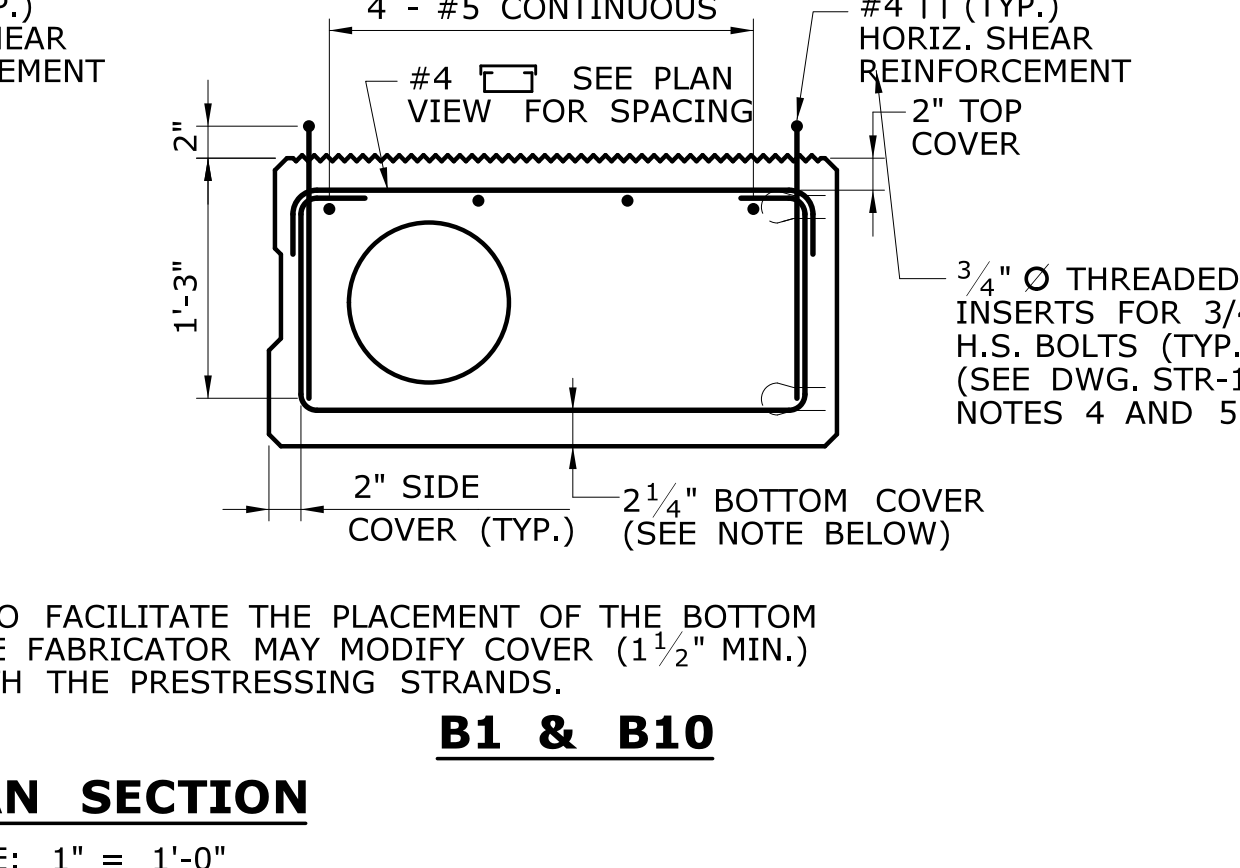
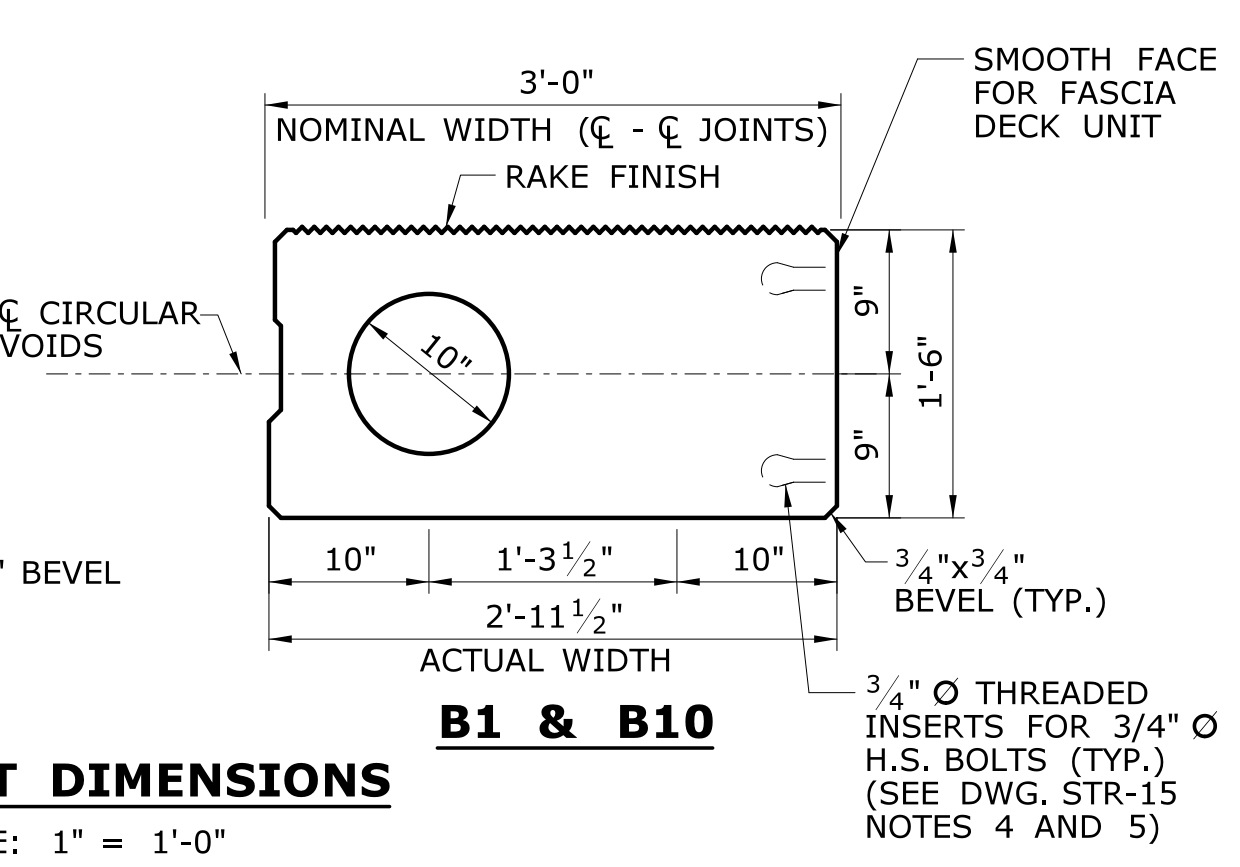
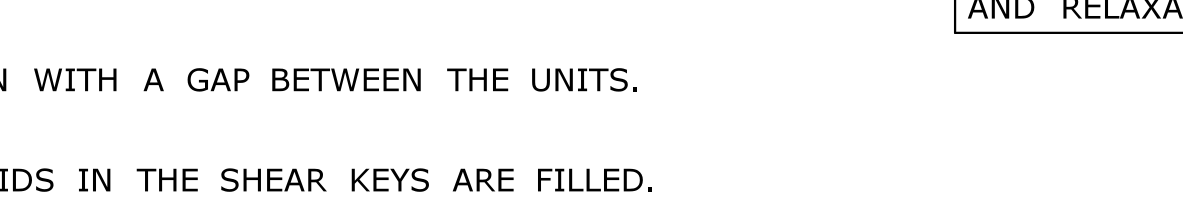
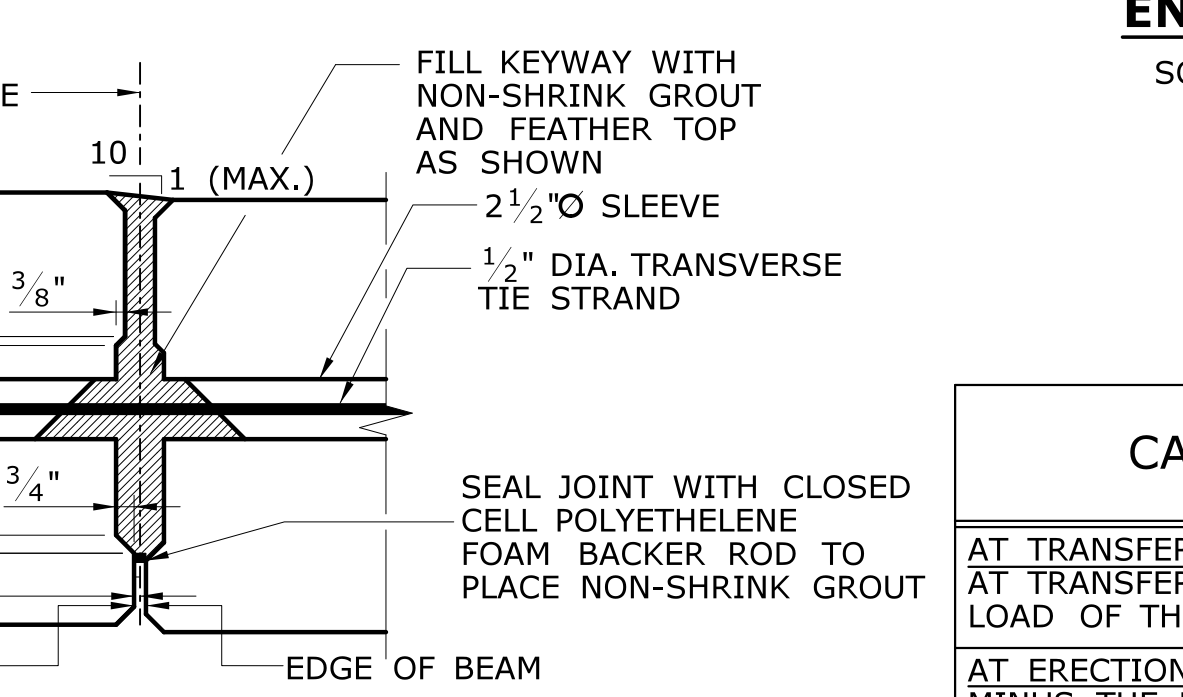
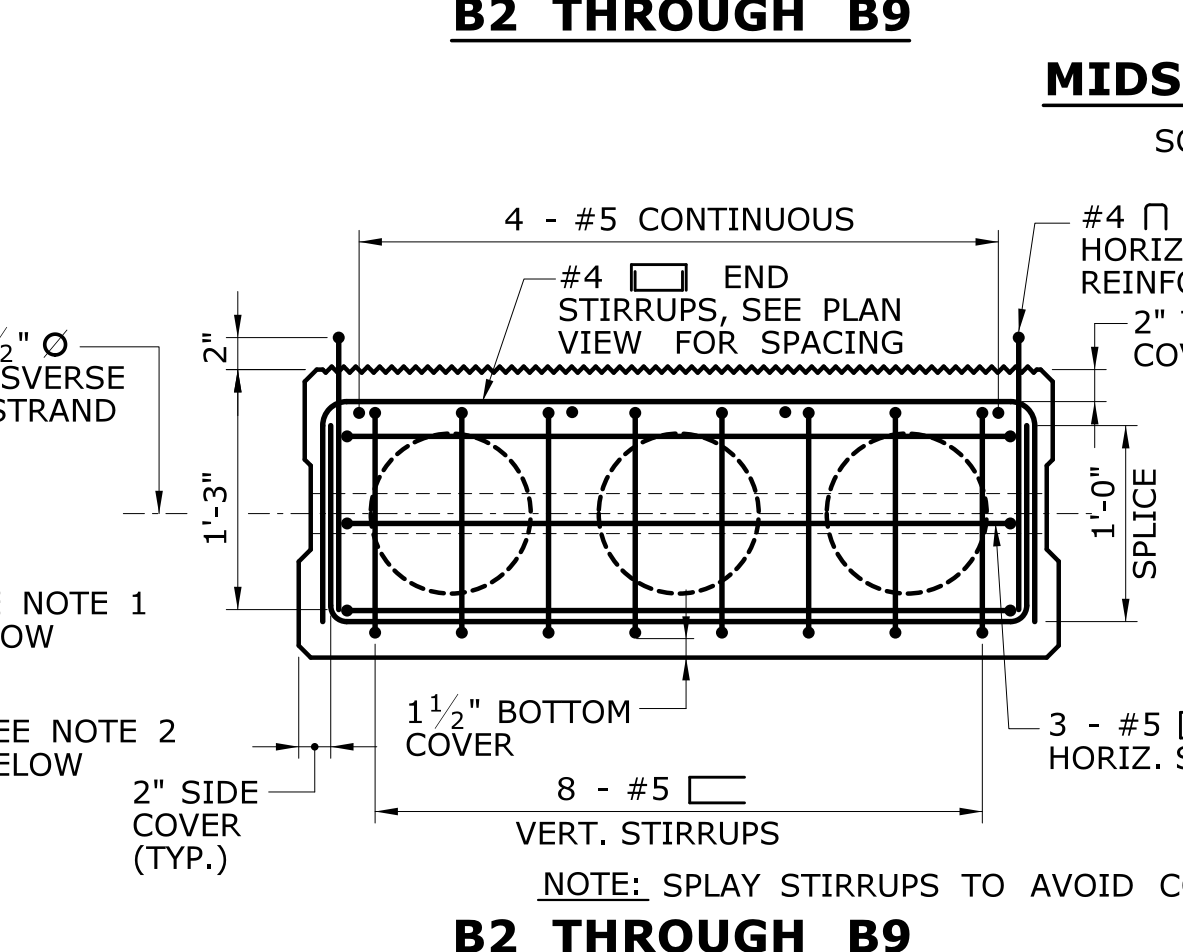
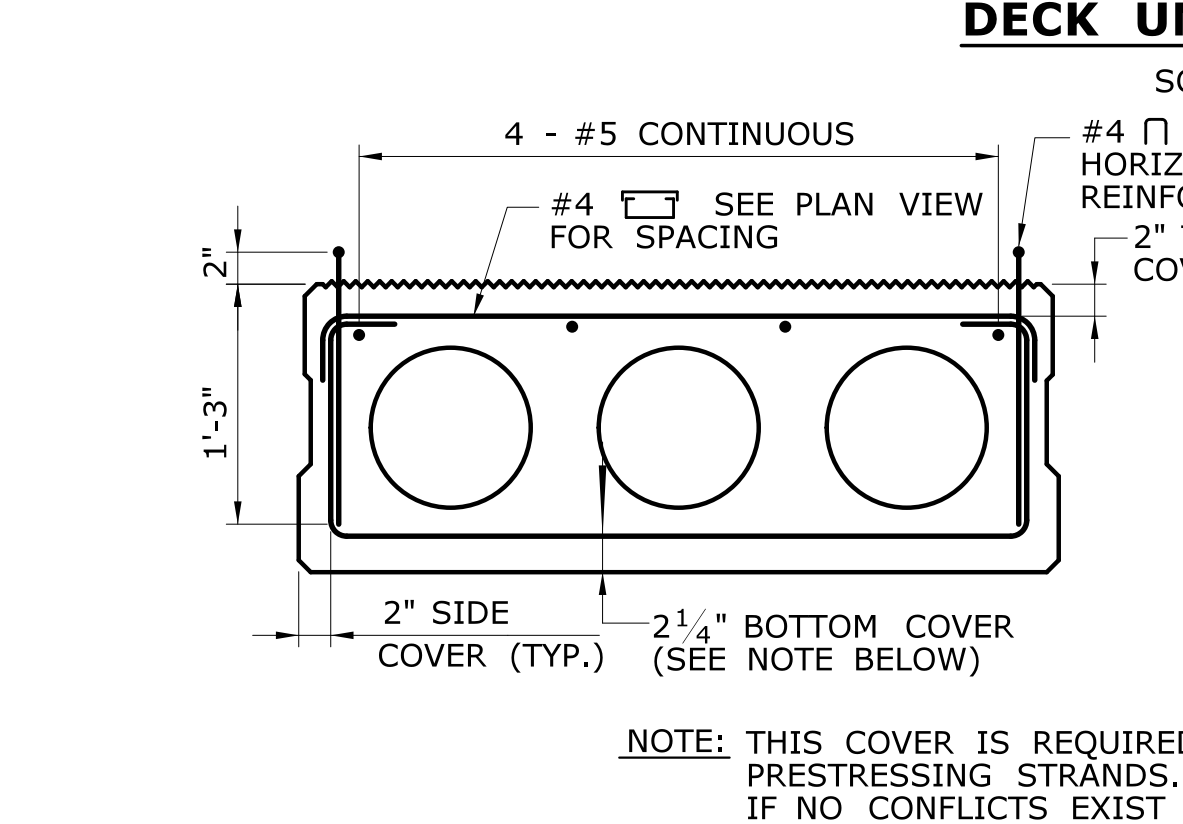
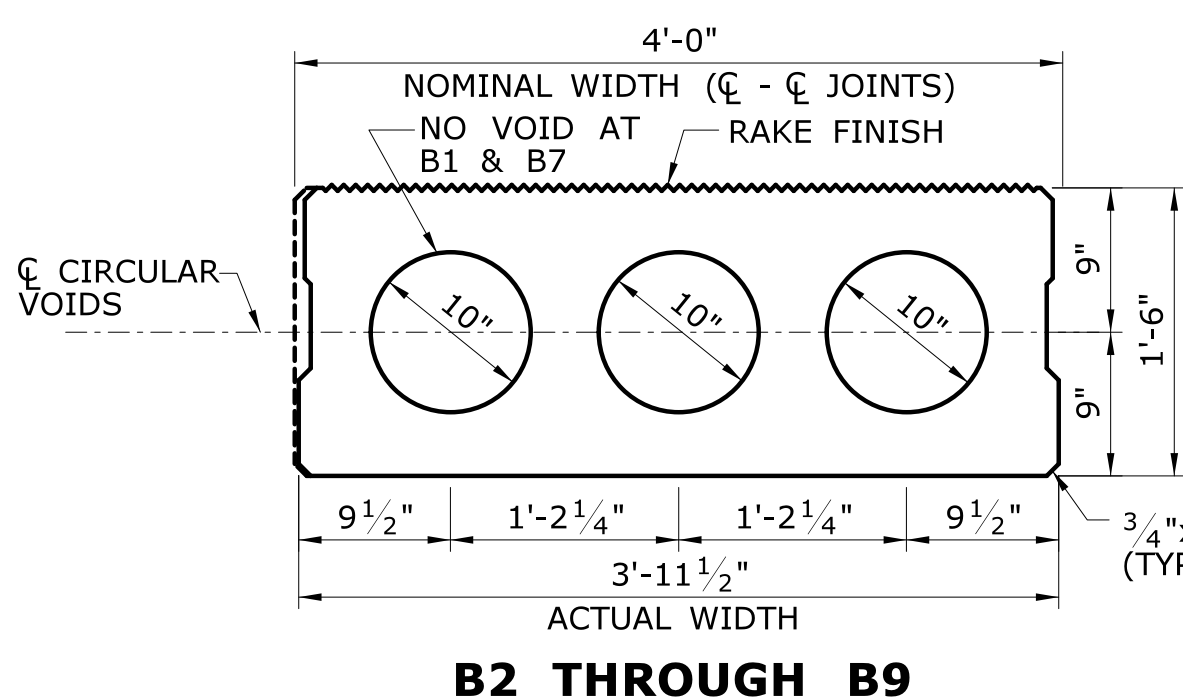


			DESIGNER/DRAFTER: DK		SIGNATURE/ BLOCK:		GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033		PROJECT TITLE:		TOWN:		PROJECT NO.	
			CHECKED BY: VLL		TOWN OF LITCHFIELD				REPLACEMENT OF BRIDGE NO. 05608 EASTERN BOULEVARD OVER SALMON BROOK		GLASTONBURY		0053-0188	
			SCALE AS NOTED										DRAWING NO.	
			Filename: ...\\SB_MSH_Br05608_053-188_FRAM.dgn										STR-13	
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.											DRAWING TITLE:		SHEET NO.	
											FRAMING PLAN & SLAB DETAILS		31	
REV. DATE			REVISION DESCRIPTION			SHEET NO.			Plotted Date: 1/26/2017					



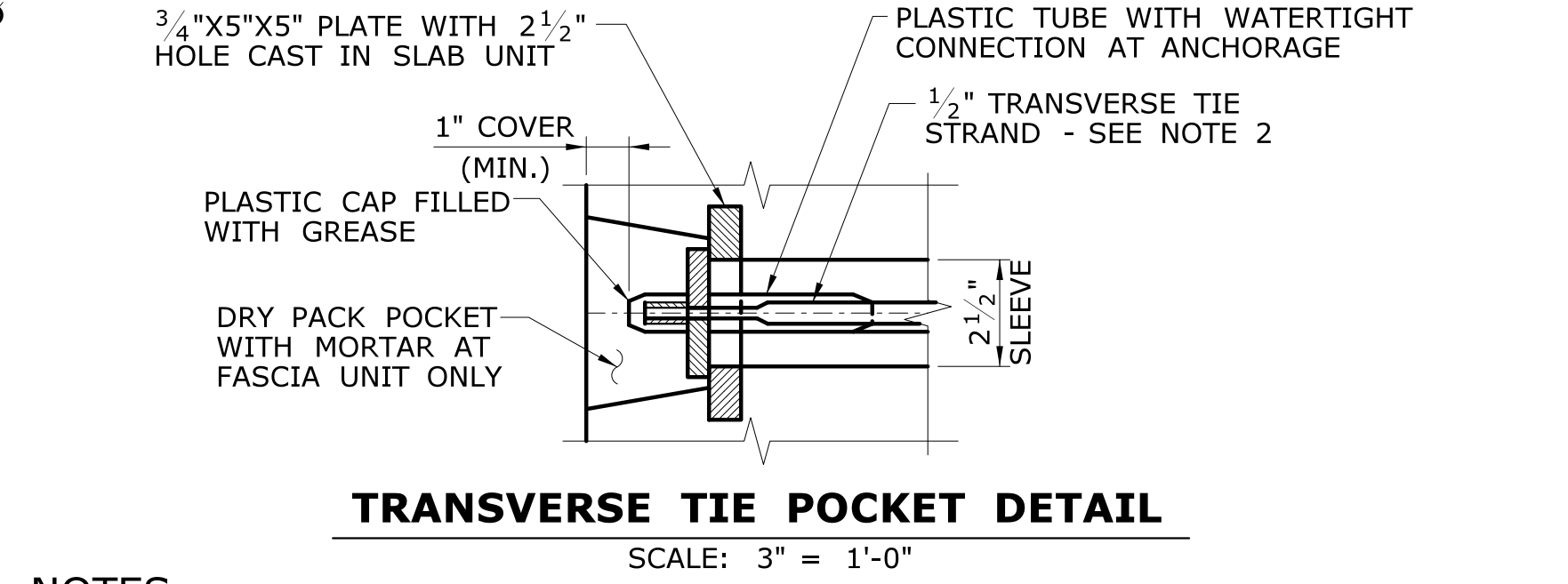
NOTES:

1. THE DECK UNITS SHALL BE PLACED AT THE NOMINAL SPACING SHOWN ON THE PLAN WITH A GAP BETWEEN THE UNITS. THE WIDTH OF THE GAPS WILL VARY DUE TO THE SWEEP OF THE UNITS.
2. GROUT FOR SHEAR KEYS SHALL BE RODDED OR VIBRATED TO ENSURE THAT ALL VOIDS IN THE SHEAR KEYS ARE FILLED.



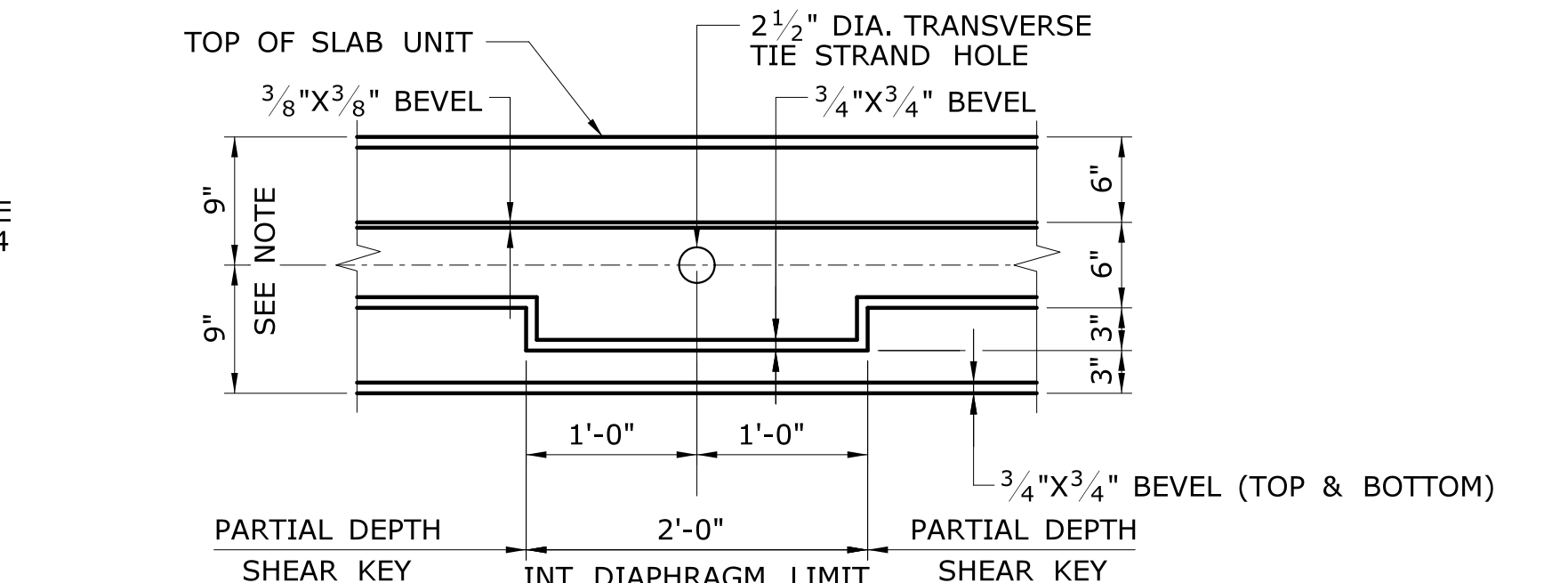
PRESTRESSED DECK UNIT NOTES:

1. PRESTRESSED CONCRETE DECK UNIT SHALL BE FABRICATED WITH THE FOLLOWING CONCRETE STRENGTHS:
28 DAYS COMPRESSIVE STRENGTH: $f'_c = 6.5$ KSI
COMPRESSIVE STRENGTH AT TRANSFER: $f'_{ci} = 5.0$ KSI
2. STRANDS FOR PRETENSIONING SHALL BE $\frac{1}{2}$ " ϕ , UNCOATED, SEVEN WIRE STRANDS CONFORMING TO THE REQUIREMENTS OF AASHTO M203, GRADE 270, LOW RELAXATION, WITH:
ULTIMATE STRENGTH: $f_s = 270$ KSI
JACKING TENSION FORCE: $F_j = 31$ KIPS PER STRAND
3. ALL REINFORCING STEEL IN PRESTRESSED CONCRETE DECK UNITS, EXCEPT PRESTRESSING STRANDS, SHALL CONFORM TO ASTM A416, GRADE 60, EPOXY COATED. PRESTRESSING STRANDS SHALL NOT BE EPOXY COATED.
4. PRESTRESSING STRANDS SHALL BE PLACED 2" ON CENTER MINIMUM, AND SHALL HAVE $1\frac{1}{2}$ " MINIMUM COVER.
5. THE DRILLING OF HOLES IN OR THE USE OF POWER ACTUATED TOOLS ON PRESTRESSED DECK UNITS WILL NOT BE PERMITTED.
6. POCKET FOR TRANSVERSE TIE ANCHORAGE SHALL BE DRY PACKED FLUSH WITH EXTERIOR SURFACE OF THE FASCIA SLAB UNIT AFTER THE TRANSVERSE TENSIONING HAS BEEN COMPLETED.
7. NO ADDITIONAL DEAD LOADS OR LIVE LOADS SHALL BE APPLIED TO THE BUTTED DECK UNITS UNTIL THE THE TRANSVERSE TIES HAVE BEEN FULLY TENSIONED AND THE GROUT IN THE LONGITUDINAL SHEAR KEYS HAS REACHED A SEVEN-DAY COMPRESSIVE STRENGTH OF 4500 PSI.
8. TOP OF ALL DECK UNITS SHALL BE GIVEN A RAKE FINISH ($\frac{1}{4}$ " AMPLITUDE) ACROSS THE WIDTH (PERPENDICULAR THE TO BEAM'S AXIS).



NOTES:

1. OTHER ANCHORAGE SYSTEMS MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER. ALTERNATE ANCHORAGE SYSTEMS SHALL BE WATERTIGHT AND CORROSION PROOF.
2. TRANSVERSE TIES SHALL BE COVERED BY A SEAMLESS POLYPROPYLENE SHEATH (WITH CORROSION INHIBITING GREASE BETWEEN THE STRAND AND SHEATH) FOR THE FULL LENGTH OF THE STRAND EXCEPT AT THE ANCHORAGE LOCATION.



NOTE:

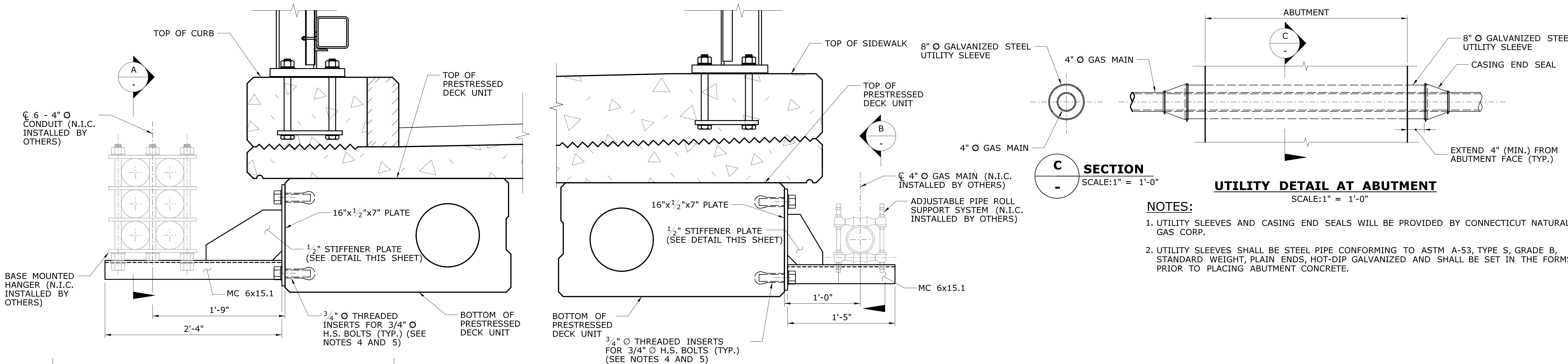
THE VERTICAL LOCATION OF THE TRANSVERSE TIE STRANDS MUST BE COORDINATED WITH THE PRESTRESSED STRANDS AND ADJUSTED AS NECESSARY BY THE FABRICATOR.

INTERNAL DIAPHRAGM
SCALE: 1" = 1'-0"

TRANSVERSE TIE TENSIONING NOTES:

1. AFTER ALL BEAMS REQUIRED FOR EACH STAGE HAVE BEEN ERECTED, TENSION EACH TRANSVERSE TIE TO 5 KIPS.
2. FILL ALL KEYS WITH NON-SHRINK GROUT. THE CONTRACTOR SHALL COVER AND PROTECT THE KEYWAYS FROM THE WEATHER AND DEBRIS UNTIL THEY ARE FILLED.
3. AFTER THE GROUT HAS ATTAINED A STRENGTH OF 1.5 KSI (BASE ON THE GROUT MANUFACTURER'S DIRECTION), TENSION EACH TRANSVERSE TIE TO 30 KIPS. NO TRAFFIC OR HEAVY EQUIPMENT WILL BE PERMITTED ON THE BEAMS UNTIL ALL TIES HAVE BEEN FULLY TENSIONED.
4. CONCRETE FOR SLAB AND CURBS SHALL NOT BE PLACED UNTIL THE TRANSVERSE TIES HAVE BEEN FULLY TENSIONED.

CAMBER TABLE AT MIDSPAN	B1 & B10 (IN.)	B2 & B9 (IN.)	B3 TO B8 (IN.)
AT TRANSFER: CAMBER DUE TO PRETENSIONING FORCE AT TRANSFER MINUS THE DEFLECTION DUE TO THE DEAD LOAD OF THE MEMBER.	0.85 ↑	1.01 ↑	1.01 ↑
AT ERECTION: CAMBER (DUE TO PRETENSIONING FORCE MINUS THE DEFLECTION DUE TO THE DEAD LOAD OF THE MEMBER) THAT IS PRESENT AT APPROXIMATELY 30 DAYS AFTER TRANSFER.	1.48 ↑	1.78 ↑	1.78 ↑
FINAL: CAMBER AFTER ALL DEAD LOADS ARE APPLIED TO THE STRUCTURE, AND AFTER LONG TERM CREEP AND RELAXATION HAVE TAKEN PLACE.	0.29 ↑	0.55 ↑	0.10 ↓



SECTION
SCALE: 1" = 1'-0"

UTILITY DETAIL AT ABUTMENT
SCALE: 1" = 1'-0"

NOTES:

- UTILITY SLEEVES AND CASING END SEALS WILL BE PROVIDED BY CONNECTICUT NATURAL GAS CORP.
- UTILITY SLEEVES SHALL BE STEEL PIPE CONFORMING TO ASTM A-53, TYPE S, GRADE B, STANDARD WEIGHT, PLAIN ENDS, HOT-DIP GALVANIZED AND SHALL BE SET IN THE FORMS PRIOR TO PLACING ABUTMENT CONCRETE.

UTILITY SUPPORT DETAILS
SCALE: 1 1/2" = 1'-0"

SECTION
SCALE: 3" = 1'-0"

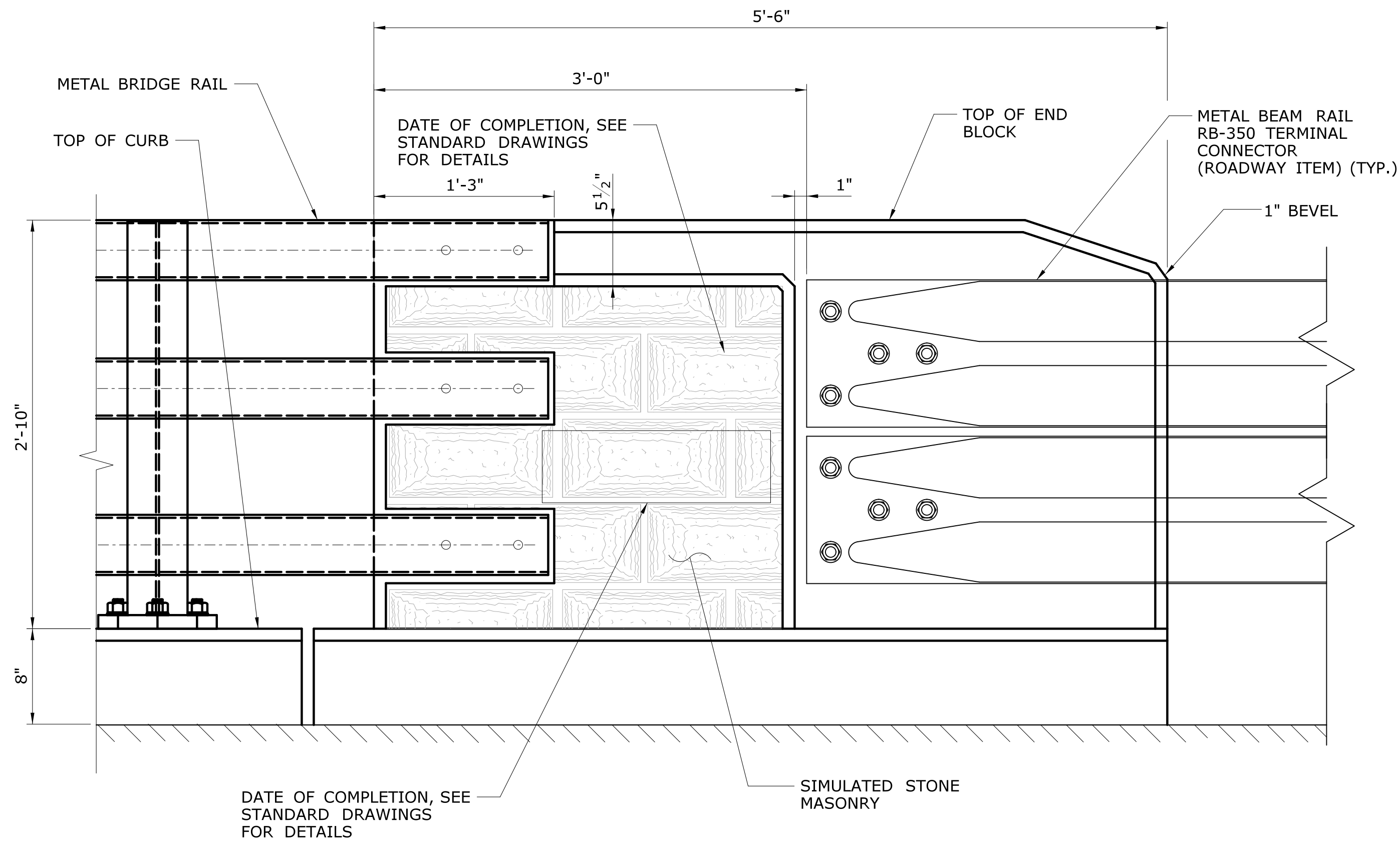
STIFFENER PLATE DETAIL
SCALE: 6" = 1'-0"

UTILITY SUPPORT NOTES:

- UTILITY SUPPORTS SHALL BE PAID FOR UNDER THE ITEM "STRUCTURAL STEEL SUPPORTS FOR UTILITIES ON BRIDGE".
- ALL THE STRUCTURAL STEEL FOR UTILITY SUPPORTS SHALL CONFORM TO AASHTO M270 GRADE 50 T2 AND SHALL BE HOT DIP GALVANIZED AFTER SHOP FABRICATION IN CONFORMANCE WITH ASTM A123. ALL BOLTS SHALL BE MECHANICALLY GALVANIZED IN CONFORMANCE WITH ASTM A325.
- MATERIALS, FURNISHING AND INSTALLATION OF UTILITIES ON SUPPORTS WILL BE COMPLETED BY FRONTIER CORP. AND CONNECTICUT NATURAL GAS CORP.
- THE 3/4" Ø THREADED INSERTS FOR 3/4" Ø HS BOLTS SHALL BE CAST INTO THE PRECAST BEAMS BY THE FABRICATOR AND SHALL PROVIDE A MINIMUM TENSILE RESISTANCE OF 6 KIPS AND A MINIMUM NOMINAL SHEAR RESISTANCE OF 6 KIPS IN 5000 PSI CONCRETE.
- INSERTS SHALL BE POSITIONED TO AVOID INTERFERENCE WITH PRESTRESSING STRANDS.
- THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF HOLES IN THE CHANNEL FOR UTILITY SUPPORT ASSEMBLIES WITH UTILITY COMPANIES.
- ADJUSTABLE PIPE ROLL SUPPORTS FOR GAS MAIN, GAS MAIN, BASE MOUNTED HANGERS, AND CONDUITS TO BE INSTALLED BY UTILITY COMPANIES.

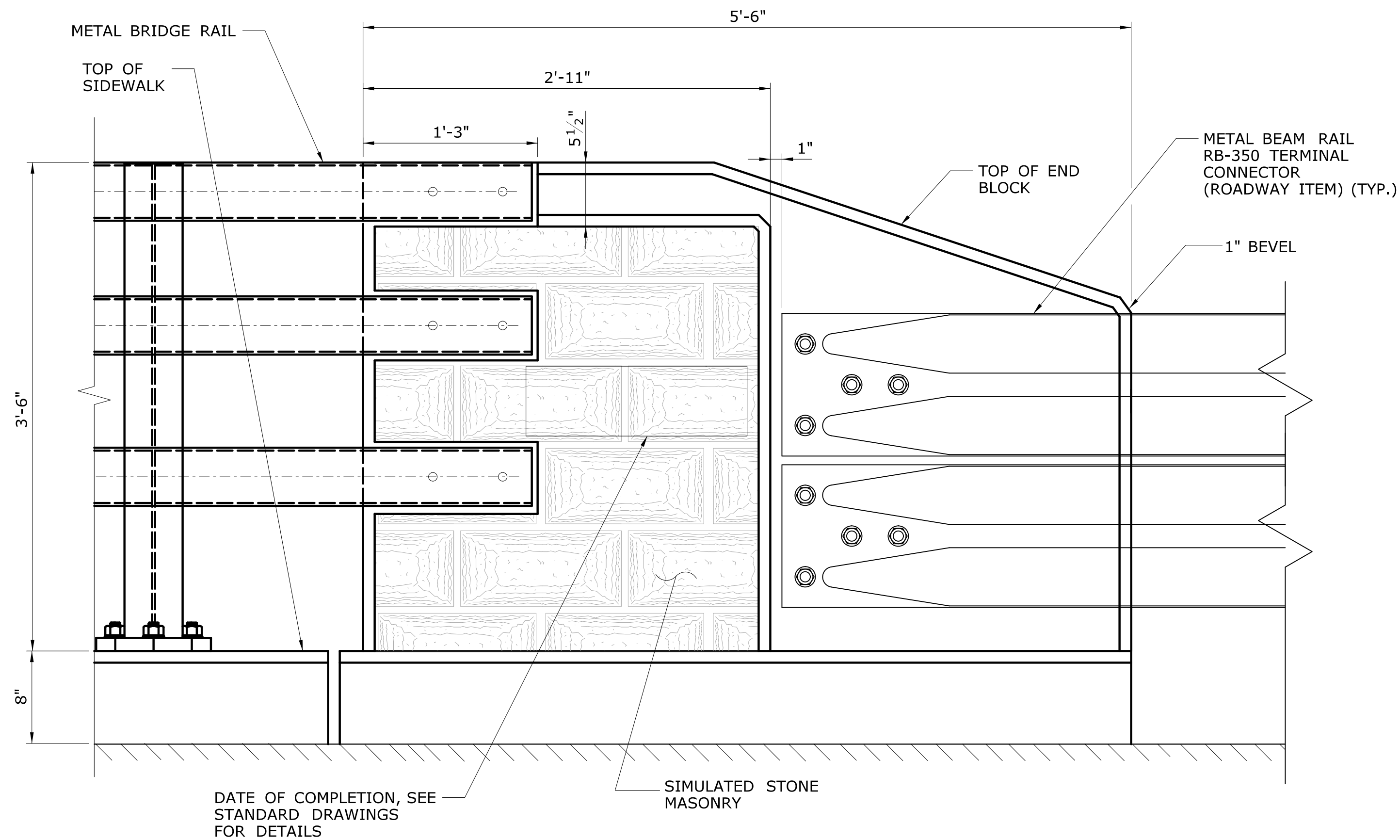
						DESIGNER/DRAFTER: SD		TOWN OF GLASTONBURY		SIGNATURE/ BLOCK: 		PROJECT TITLE: REPLACEMENT OF BRIDGE NO.05608 EASTERN BOULEVARD OVER SALMON BROOK		TOWN: GLASTONBURY		PROJECT NO. 0053-0188					
				CHECKED BY: VLL																DRAWING NO. STR-15	
						SCALE AS NOTED														SHEET NO. 33	
REV.	DATE	REVISION DESCRIPTION		SHEET NO.	Plotted Date: 1/26/2017			Filename: ...\\SB_MSH_Br05608_053-188_UTILITY_SUPPORT.dgn													

[illegible]



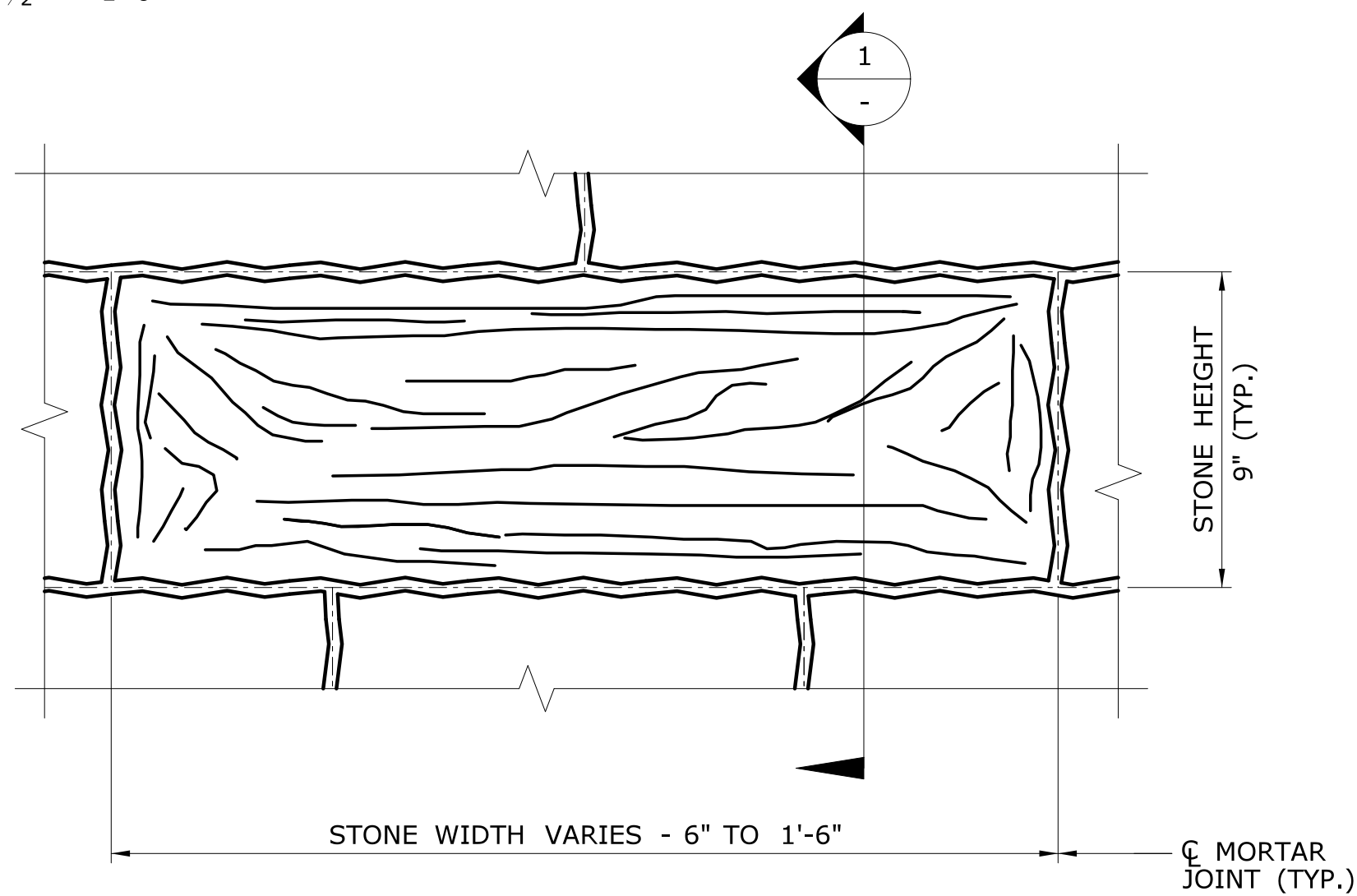
ELEVATION AT SAFETY CURB

SCALE: $1\frac{1}{2}" = 1'-0"$



ELEVATION AT SIDEWALK

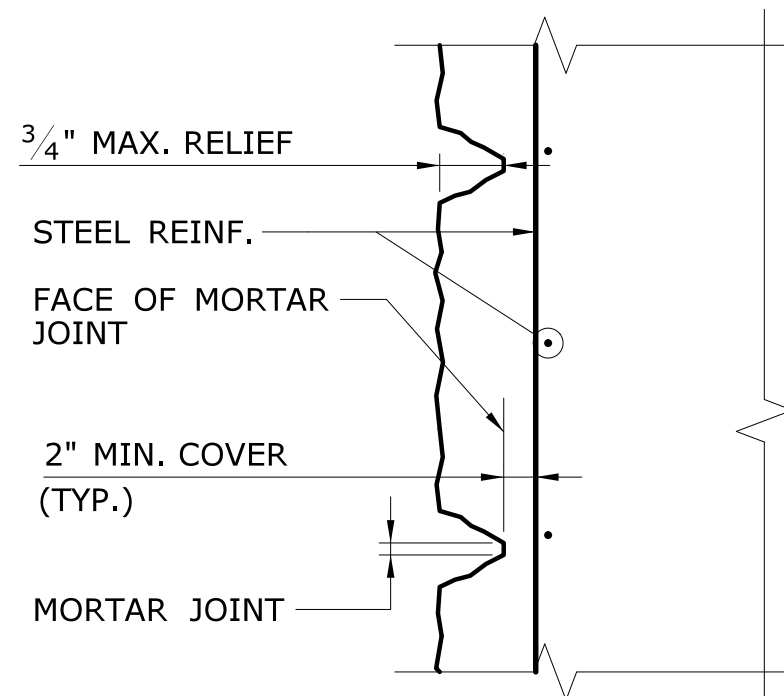
SCALE: $1\frac{1}{2}" = 1'-0"$



ELEVATION

SIMULATED STONE MASONRY

N.T.S



1 SECTION
N.T.S

SIMULATED STONE MASONRY NOTES:

- WHERE SHOWN ON THE PLANS, THE CONTRACTOR SHALL UTILIZE CONCRETE FORM LINERS TO SIMULATE STONE MASONRY CONSTRUCTION. THE COST OF THIS WORK SHALL BE PAID FOR UNDER ITEM "SIMULATED STONE MASONRY".
- THE SIMULATED STONE MASONRY PATTERN PROVIDED SHALL BE DETERMINED BASED UPON THE LENGTH AND HEIGHT OF THE END BLOCK.
- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL LAYOUT DRAWINGS OF ALL SIMULATED STONE MASONRY STONE SIZES, STONE CONFIGURATIONS, JOINT SPACINGS, AND ALL DIMENSIONS REQUIRED.
- IN ADDITION TO THE DETAILS SHOWN, ALL EXPOSED EDGES SHALL RECEIVE A 1" x 1" BEVEL UNLESS DIMENSIONED OTHERWISE.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/26/2017

DESIGNER/DRAFTER:
SD
CHECKED BY:
VLL
SCALE AS NOTED

TOWN OF GLASTONBURY

Filename: ...\\SB_MSH_Br05608_053-188_Simulated stone masonry.dgn

SIGNATURE/
BLOCK:



GM2 ASSOCIATES, INC.
115 GLASTONBURY BLVD.
GLASTONBURY, CT 06033

PROJECT TITLE:

**REPLACEMENT OF BRIDGE NO.05608
EASTERN BOULEVARD
OVER SALMON BROOK**

TOWN:

GLASTONBURY

DRAWING TITLE:

**SIMULATED STONE
MASONRY DETAILS**

PROJECT NO.

0053-0188

DRAWING NO.

STR-17

SHEET NO.

35

